

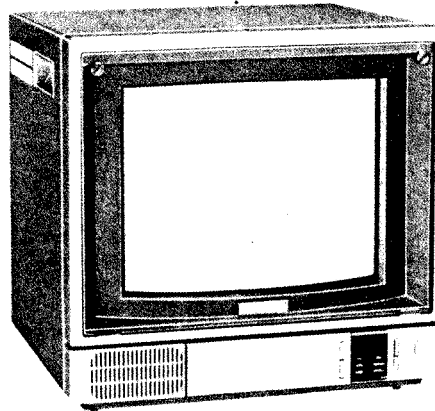
XCB 217

CVM-1371QE

## SERVICE MANUAL

West Germany Model

Chassis No. SCC-688A-A



August, 1985

## SPECIFICATIONS

|                      |                                                                                                                                                                          |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Television system    | CCIR system B, G and H                                                                                                                                                   |
| Color system         | PAL, SECAM, NTSC and NTSC4.43                                                                                                                                            |
| Channel coverage     | VHF channels 2 - 12<br>UHF channels 21 - 68                                                                                                                              |
| Picture tube         | Trinitron tube<br>Approx. 33 cm (13 inches), 90-degree deflection, Super Fine Pitch 0.25 mm (Approx. 31 cm picture measured diagonally)<br>75-ohm standard aerial socket |
| Aerial               | 500 lines                                                                                                                                                                |
| Resolution           | 6,500°K                                                                                                                                                                  |
| Color temperature    | (Can be changed to 9,300°K by an internal switch. For changing, consult your authorized Sony dealer.)                                                                    |
| Frequency response   | 5.5 MHz (-3 dB, composite video)                                                                                                                                         |
| Horizontal linearity | ±8%                                                                                                                                                                      |
| Vertical linearity   | ±5%                                                                                                                                                                      |
| Line pull range      | Horizontal ±500 Hz<br>Vertical 8 Hz                                                                                                                                      |
| Speaker              | 5 × 9 cm, Audio output 1 W (max.)                                                                                                                                        |
| Power requirements   | 220 V ac, 50/60 Hz                                                                                                                                                       |
| Power consumption    | 80 W                                                                                                                                                                     |
| Dimensions           | Approx. 346 × 339 × 388 mm (w/h/d)<br>(13 <sup>5</sup> / <sub>8</sub> × 13 <sup>3</sup> / <sub>8</sub> × 15 <sup>3</sup> / <sub>8</sub> inches)                          |
| Weight               | Approx. 15.8 kg (34 lb 13 oz)                                                                                                                                            |
| Accessory supplied   | Aerial connecting plug                                                                                                                                                   |

## Input/output

| Signal       | Connector                   | Signal level                                             | Remarks                                                    |
|--------------|-----------------------------|----------------------------------------------------------|------------------------------------------------------------|
| VIDEO input  | [VTR]<br>8-pin (pins 2 & 6) | 0.5 – 1.5 V (p-p)<br>composite<br>1.0 V (p-p)<br>nominal | PAL, SECAM, NTSC,<br>NTSC4.43<br>75 ohms, sync<br>negative |
|              | [LINE]<br>BNC connector     |                                                          |                                                            |
| VIDEO output | [TV]<br>BNC connector       | 1.0 V (p-p)<br>composite                                 | PAL, SECAM, NTSC,<br>NTSC4.43<br>75 ohms, sync<br>negative |
|              | [VTR]<br>8-pin (pins 3 & 4) |                                                          |                                                            |
|              | [LINE]<br>BNC connector     |                                                          |                                                            |
|              | [MONITOR]<br>BNC connector  |                                                          |                                                            |
| AUDIO input  | [VTR]<br>8-pin (pins 1 & 5) | –5 dB                                                    | high impedance                                             |
|              | [LINE]<br>Minijack          |                                                          |                                                            |
| AUDIO output | [TV]<br>Minijack            | –5 dB                                                    | less than<br>4.7 kilohms                                   |
|              | [VTR]<br>8-pin (pins 7 & 8) | –20 dB                                                   |                                                            |
|              | [LINE]<br>Minijack          | –5 dB                                                    |                                                            |
|              | [MONITOR]<br>Minijack       |                                                          |                                                            |

While the information given is true at the time of printing, small production changes in the course of our company's policy of improvement through research and design might not necessarily be indicated in the specifications. We would ask you to check with your appointed Sony dealer if clarification on any point is required.

**TRINITRON® COLOR  
RECEIVER/MONITOR  
SONY®**



MON

6841

**SAFETY-RELATED COMPONENT WARNING !!**

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

**SICHERHEITSHINWEIS FÜR KOMPONENTEN!!**

DIE IN DEN SCHALTBILDERN, DEN IN EINZELTEILE AUFGELOSTEN PERSPEKTIVISCHEN ZEICHNUNGEN UND DEN TEILELISTEN SCHRAFFIERT EINGEZEICHNETEN UND DURCH DAS ZEICHEN  GEKENNZEICHNETEN KOMPONENTEN SIND FÜR DIE BETRIEBSSICHERHEIT KRITISCH. DIESE KOMPONENTEN SIND DURCH SOLCHE SONY TEILE ZU ERSETZEN, DIE IN TEILENUMMERN IN DIESEM HANDBUCH ODER IN VON SONY HERAUSGEGEBENEN ERGÄNZUNGEN ANGEZEICHNET SIND. AUF FÜR DIE BETRIEBSSICHERHEIT KRITISCHE SCHALTUNGSEINSTELLUNGEN WIRD IN DIESEM HANDBUCH HINGEWIESEN. BEFOLGEN SIE DIESE ANWEISUNGEN STETS, WENN KRITISCHE KOMPONENTEN AUSGEWECHSELT WERDEN ODER VERDACHT AUF FUNKTIONSTÖRUNGEN BESTEHET.

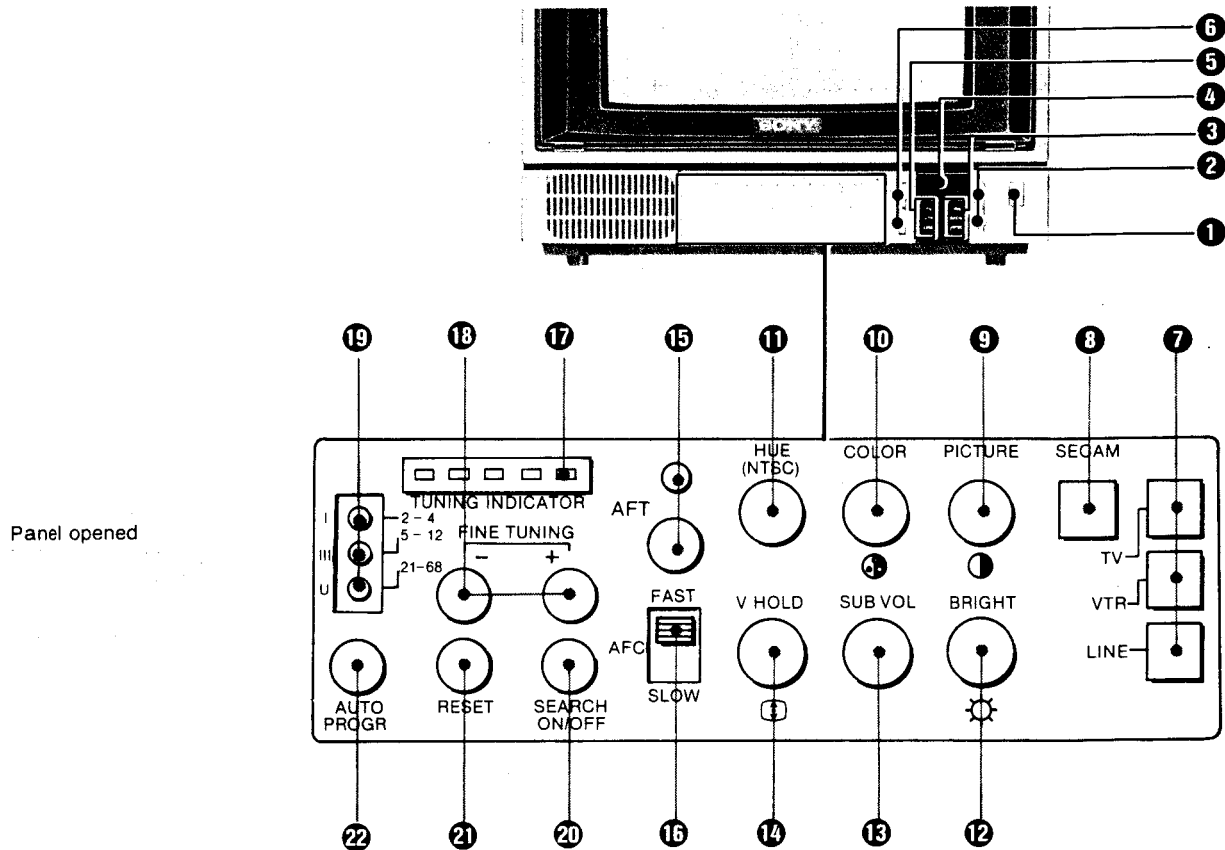
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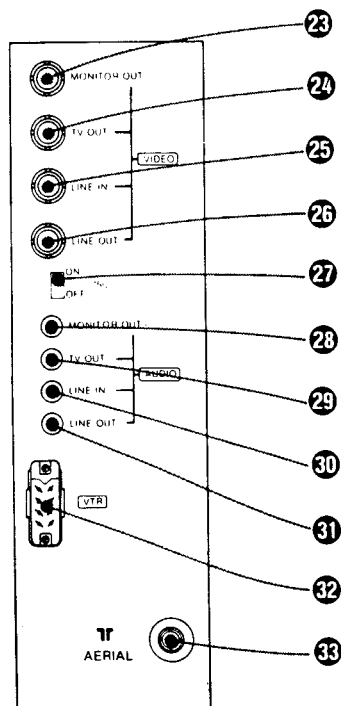
## SECTION 1 GENERAL

### 1-1. FUNCTION OF CONTROLS

#### Front panel



#### Rear panel





Each number in the text is keyed to that of the photo and the illustration on page 4.

## FRONT PANEL

### ❶ POWER switch

To turn the monitor on, depress the POWER switch. To turn the monitor off, press the switch again.

### ❷ PROGRAM select buttons

Press the + button to select a higher-numbered program and the – button to select a lower-numbered program.

### ❸ Color system indicators

Indicate the color system of the received telecast or the input video signal.

### ❹ Program indicator

Indicates the program number selected.

### ❺ Input indicators

Illuminate to indicate the input select button pressed.

### ❻ VOLUME buttons

Press the + or – button to obtain the desired volume.

### ❼ Input select buttons

Press to select the program to be monitored.

TV : for a TV program (aerial inputs)

VTR : for a signal from the 8-pin VTR connector

LINE: for a signal from the LINE IN connectors

### ❽ SECAM button

Press this button when a picture from SECAM color sources is distorted. The picture will become clear.

### ❾ PICTURE control

Adjusts the contrast, color intensity and brightness simultaneously in the proper ratio.

### ❿ COLOR control

Adjusts the color intensity of the picture. Clockwise rotation makes the picture more vivid; counterclockwise rotation makes it paler.

### ⓫ HUE control

This control is effective only for playing tapes of the NTSC or NTSC<sub>4.43</sub> system. Use to obtain the most natural skin tones. Clockwise rotation makes the skin tones more greenish; counterclockwise rotation makes them more purplish.

### ⓬ BRIGHT (brightness) control

Adjusts the brightness. Normally set this control at the center detent position.

### ⓭ SUB VOL (volume) control

Used to adjust the range of the volume adjustable by the VOLUME buttons. Turn the control clockwise for increased volume, and counterclockwise for reduced volume.

### ⓮ V HOLD (vertical hold) control

If the picture rolls vertically, correct it with this control.

### ⓯ AFT (automatic fine tuning) button and indicator

When a station is tuned and memorized in automatic and manual programming, AFT (automatic fine tuning) circuit is activated automatically to lock in the correct signal and obtain a sharp picture. The indicator lights when AFT is activated. When a station is fine tuned with the FINE TUNING buttons, AFT is deactivated and the indicator goes off.

### ⓰ AFC (automatic frequency control) switch

Select the AFC operation in the fast mode or slow mode.

FAST: Incoming sync timing errors are compensated for. Normally, set this switch to this position.

SLOW: Incoming sync timing errors are displayed on the screen. This mode is used to monitor the jitter from VTR.

### ⓱ TUNING INDICATOR

Indicates the approximate position of the tuned station within the tuning band scanned.

### ⓲ FINE TUNING buttons

Press to tune in the station manually or to fine tune a station.

### ⓳ Band indicator

Shows the band of the tuned station.

### ⓴ SEARCH ON/OFF button

Depress (ON) for automatic or manual programming. Press it again (OFF) when programming has completed.

### ⓵ RESET button

Press to clear a program position and to set the receiving frequency below the lowest-frequency program.

### ⓶ AUTO PROGR (automatic programming) button

Press to preset receivable station automatically from the lowest frequency to the highest.

## REAR PANEL

Connectors ②③ - ②⑤ (BNC type) are for video signals and ②⑥ - ②⑧ are their corresponding connectors (minijacks) for audio signals.

### ②③ MONITOR OUT VIDEO connector

### ②④ MONITOR OUT AUDIO connector

The signal selected by the input select buttons and monitored on the screen is output here. Connect to the video and audio inputs of a VTR or another monitor.

### ②⑤ TV OUT VIDEO connector

### ②⑥ TV OUT AUDIO connector

The TV signal is always output here, regardless of the input select button setting.

### ②⑦ LINE IN VIDEO connector

### ②⑧ LINE IN AUDIO connector

Connect to the video and audio outputs of a VTR or camera. To monitor the input signals to these connectors, press the LINE input select button.

### ②⑨ LINE OUT VIDEO connector

### ②⑩ LINE OUT AUDIO connector

Loop-through outputs of the LINE IN connectors. Connect to the video and audio inputs of a VTR or another monitor.

### ②⑪ 75-ohm termination switch

When only the LINE IN connectors are used (nothing is connected to the LINE OUT connectors), set this switch to ON. When both the LINE IN and LINE OUT connectors are used together for a loop-through connection, set this switch to OFF.

### ②⑫ VTR connector (8-pin)

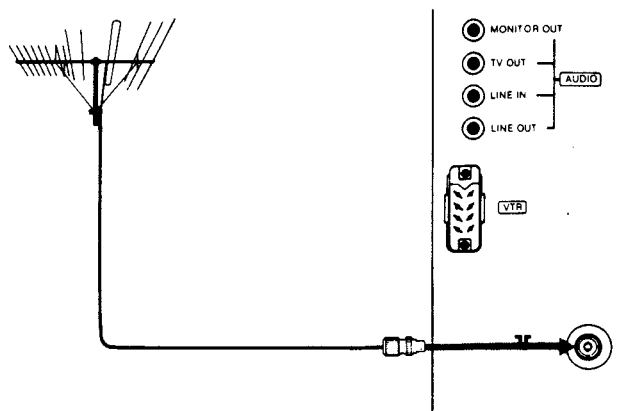
Line input and output for the video and audio signals. When this connector is connected to the 8-pin TV connector of a VTR, the TV video and audio signals can be recorded and playback signals of the VTR can be monitored by using a single cable. To monitor the input signal to this connector, press the VTR input select button.

### ②⑬ 1r (aerial connecting) socket

A 75 ohm aerial input. Connect a TV aerial to this socket.

## 1-2. AERIAL CONNECTION

Good picture and sound are obtained when a proper aerial is used. Your monitor is equipped with a standard aerial connecting socket, which is effective for both VHF and UHF receptions. Connect a coaxial aerial cable using the supplied aerial connecting plug to the 1r AERIAL socket of your monitor.

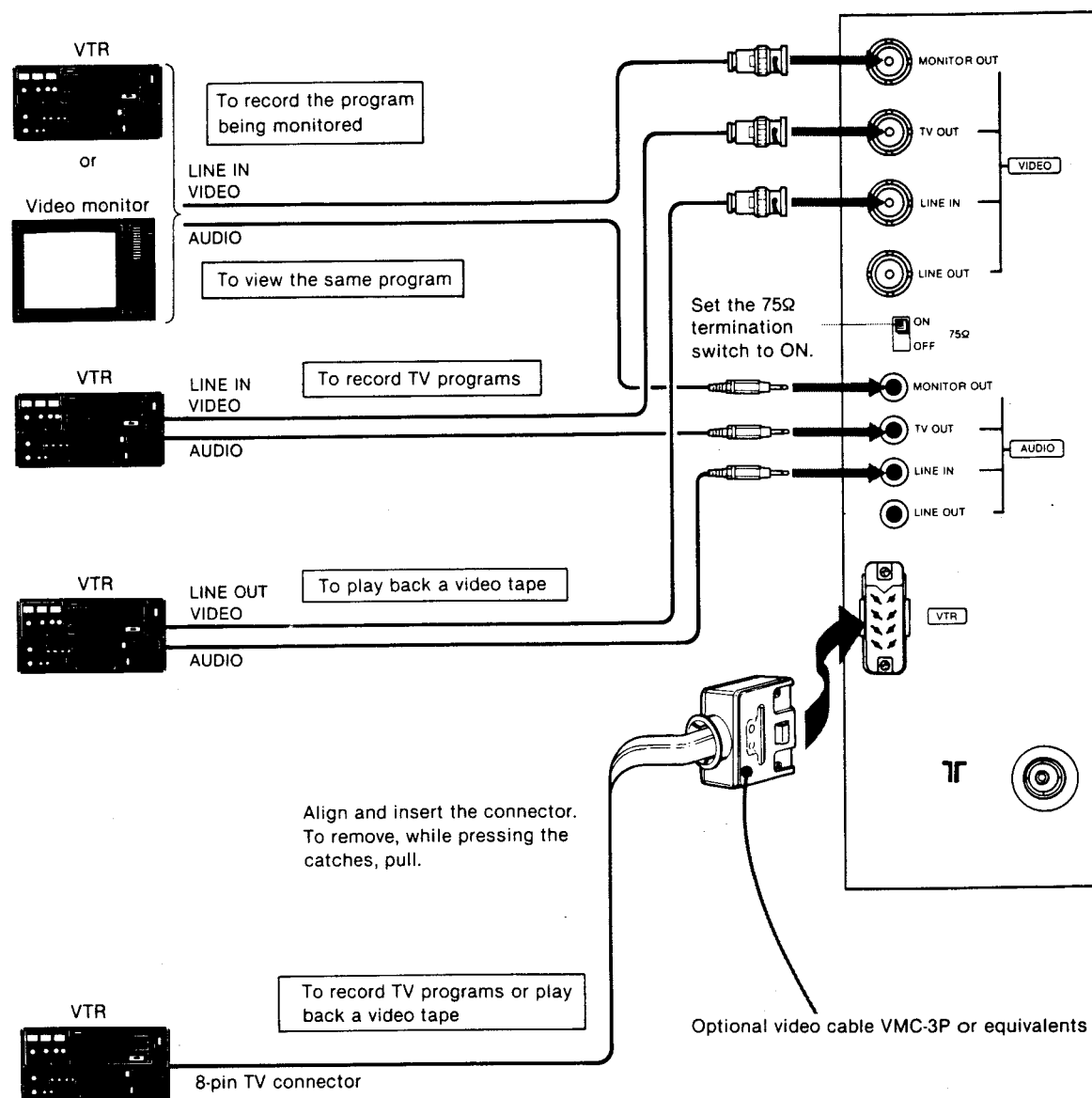


## Color temperature selection

The color temperature of the monitor has been preset at the factory to 6,500°K, and can be changed to 9,300°K. If the switching of the color temperature is required, consult your authorized Sony dealer.

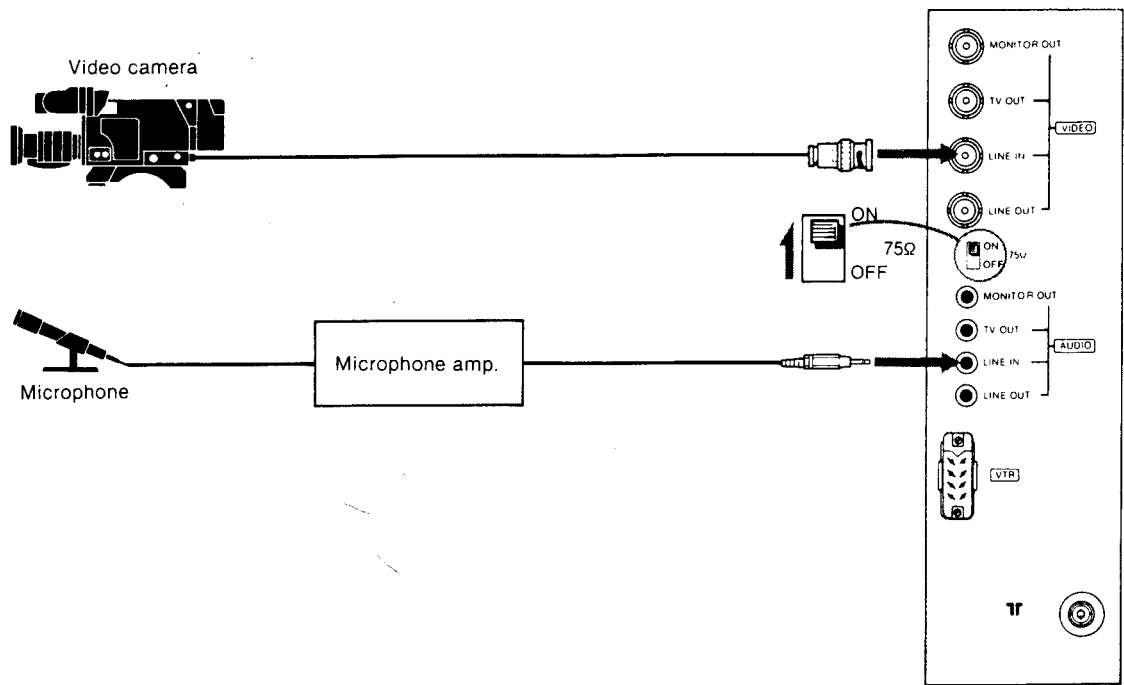
## 1-3. SYSTEM CONNECTIONS

## CONNECTING A VTR

**Note**

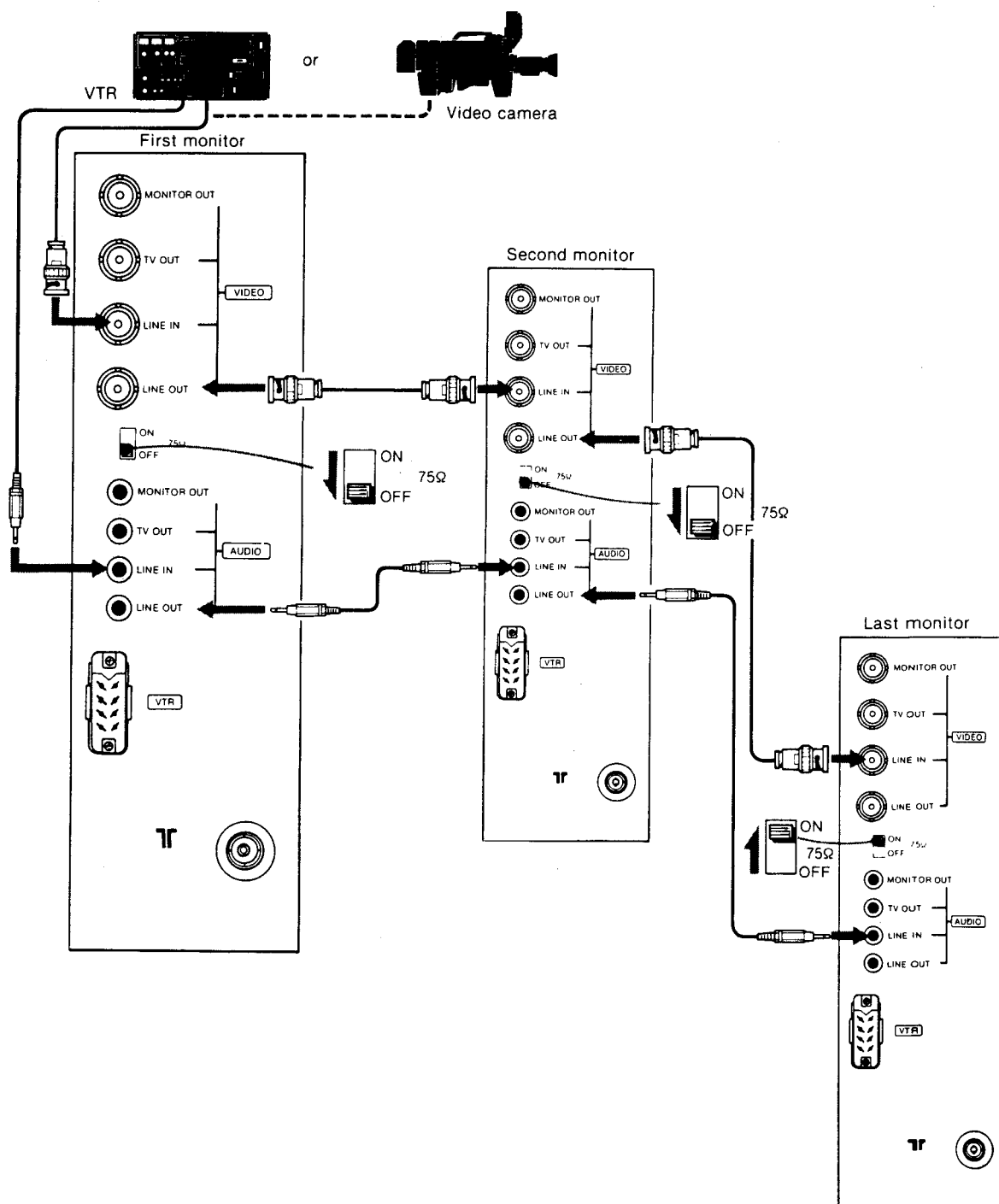
When monitoring the picture at fast speed, the picture may roll vertically or become monochrome.

CONNECTING A CAMERA AND A MICROPHONE



## CONNECTING SEVERAL MONITORS

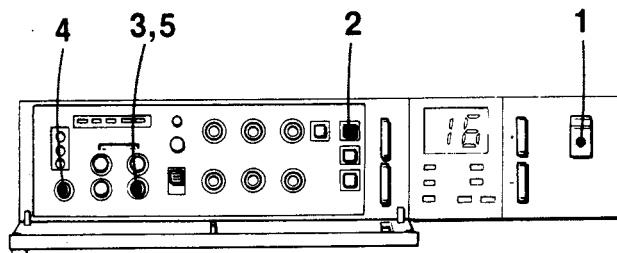
A loop-through connection is convenient for monitoring the same signal on several monitors. Use the video/audio LINE IN and LINE OUT connectors to connect the monitors. Up to 10 monitors can be connected. Set the 75-ohm termination switch of the last monitor to ON and that of the other monitors to OFF.



## 1-4. PROGRAMMING

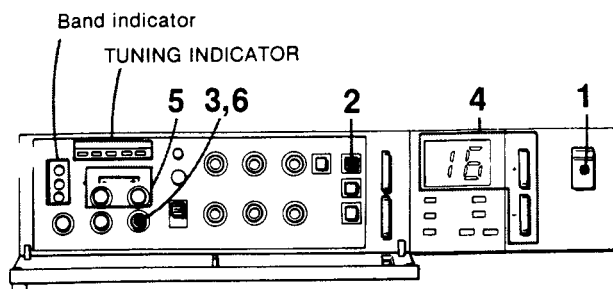
Automatic and manual programming are available. Automatic programming presets receivable stations, up to 22, automatically from the lowest frequency to the highest. With manual programming, the desired stations can be preset in any desired sequence.

### AUTOMATIC PROGRAMMING



- 1 Depress the POWER switch (ON).
- 2 Press the TV input select button. The TV input indicator will light up.
- 3 Depress the SEARCH button (ON). The number on the program indicator will blink.
- 4 Press the AUTO PROGR button. Automatic programming will begin from the program position 1. The first station located will be memorized on program position 1, the second on position 2, and so on. When no more stations can be found, automatic programming will stop automatically and the picture of program 1 will appear on the screen.
- 5 Press the SEARCH button (OFF). The figure on the program indicator will stop blinking.

### MANUAL PROGRAMMING



- 1 Depress the POWER switch (ON).
- 2 Press the TV input select button. The TV input indicator will light up.
- 3 Press the SEARCH button (ON). The number on the indicator will blink.
- 4 Press the + or - PROGRAM select button until the number of the program position to which the station is to be preset appears on the program indicator.
- 5 Press the + FINE TUNING button (do not keep it depressed) to locate a higher-frequency station or the - FINE TUNING button to locate a lower-frequency station.  
The band indicator will show the band of the tuning station  
The TUNING INDICATOR will show what portion of the band the tuning station is in.  
When a station is received, the search will stop and the AFT indicator will light. Repeat pressing the + or - FINE TUNING button until the desired station is received.

Repeat step 4 and 5 for all the stations you want to preset.

- 6 Press the SEARCH button (OFF).

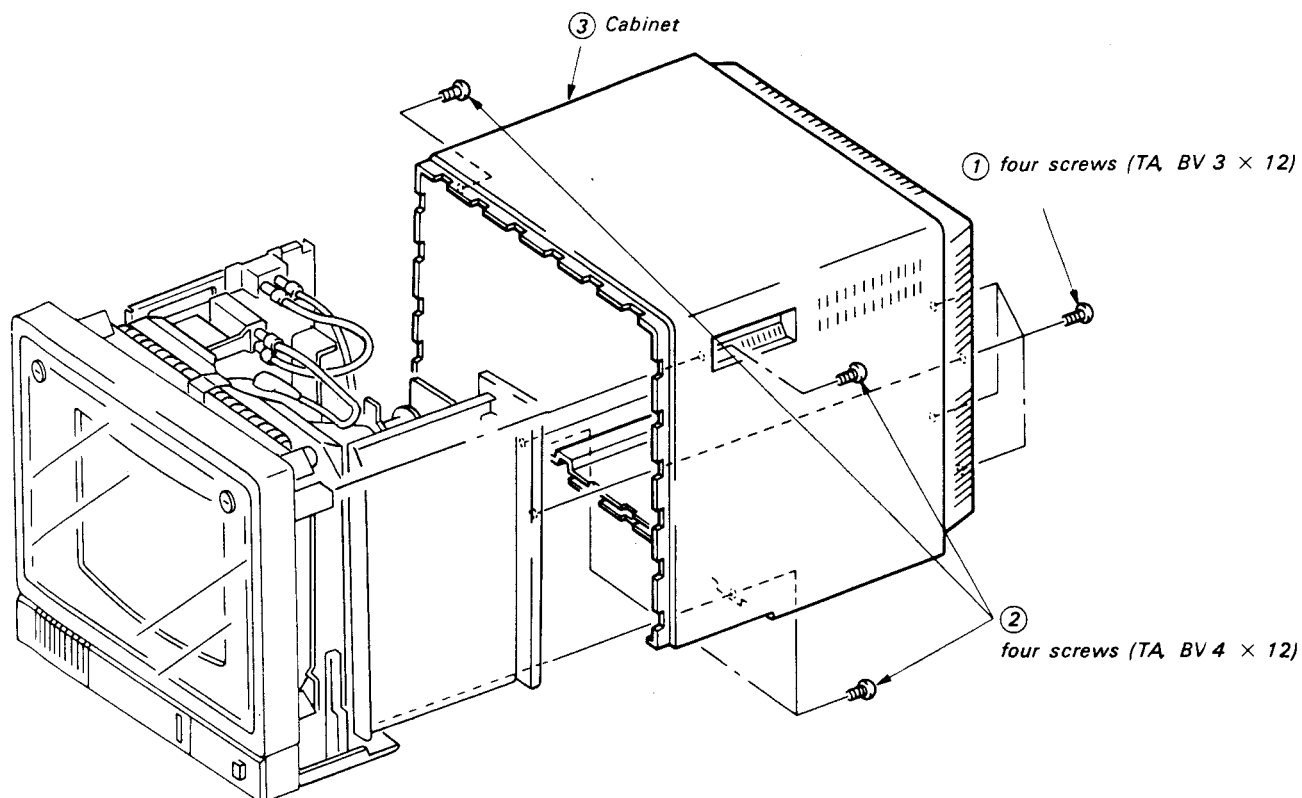
### TO SKIP UNUSED PROGRAM POSITIONS

Press the SEARCH button (ON) and the RESET button when the program indicator shows the number of an unused station. The  indication will appear on the program indicator and the unit will be automatically tuned to a frequency below the lowest-frequency station. Press the SEARCH button again (OFF). Later, when you press the + or - PROGRAM select button, this position will be skipped.

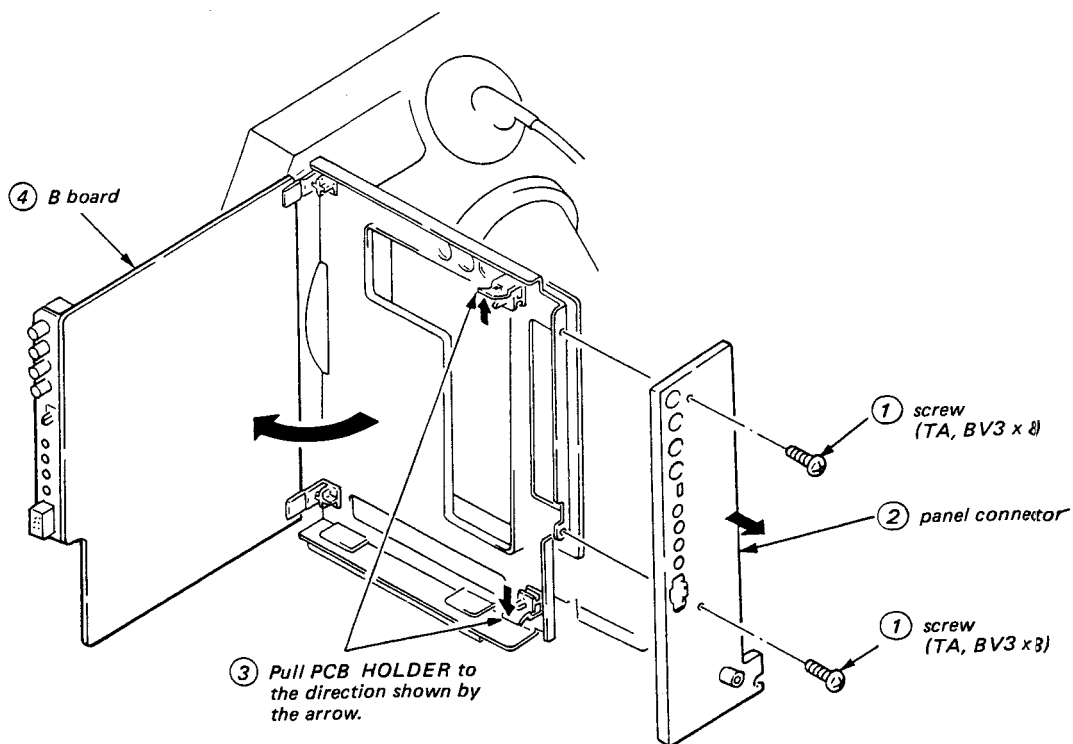
## SECTION 2 DISASSEMBLY

### 2-1. CABINET ASS'Y REMOVAL

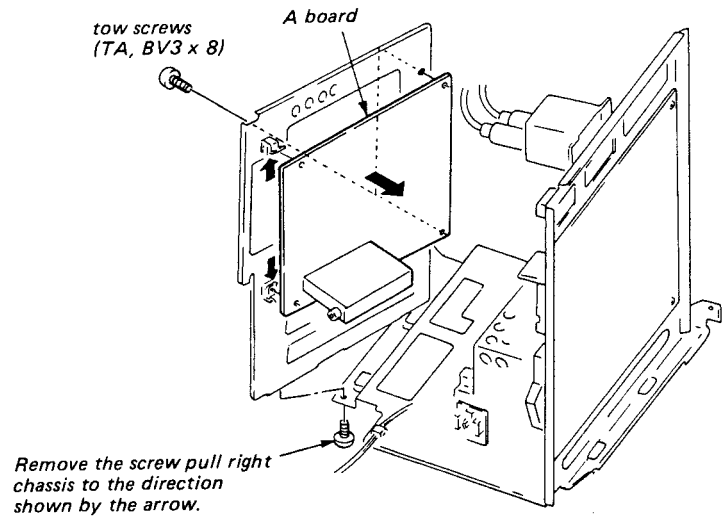
Note: Follow the disassembly procedure in the numerical order given.



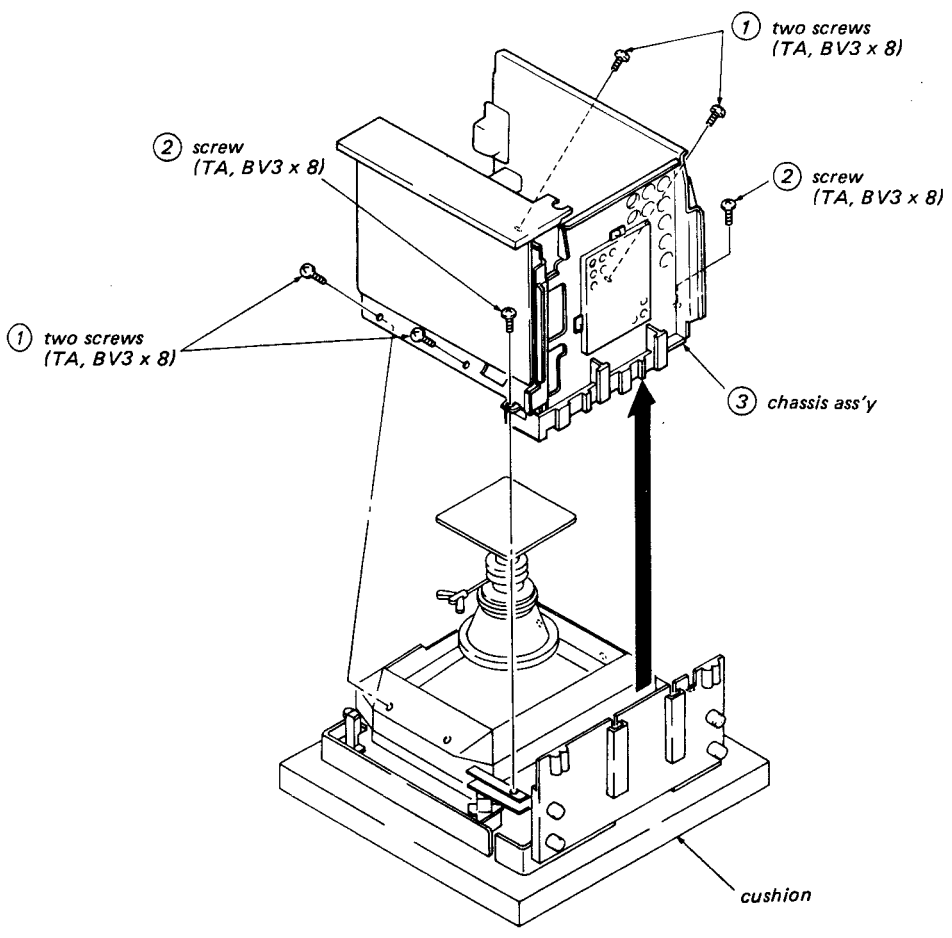
### 2-2. B BOARD REMOVAL



2-3. A BOARD REMOVAL

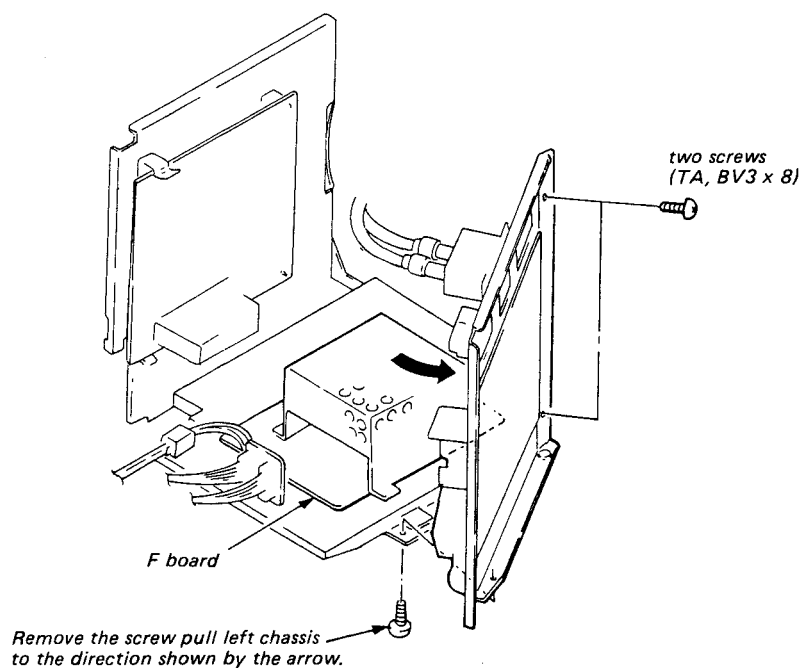


2-4. CHASSIS ASS'Y REMOVAL

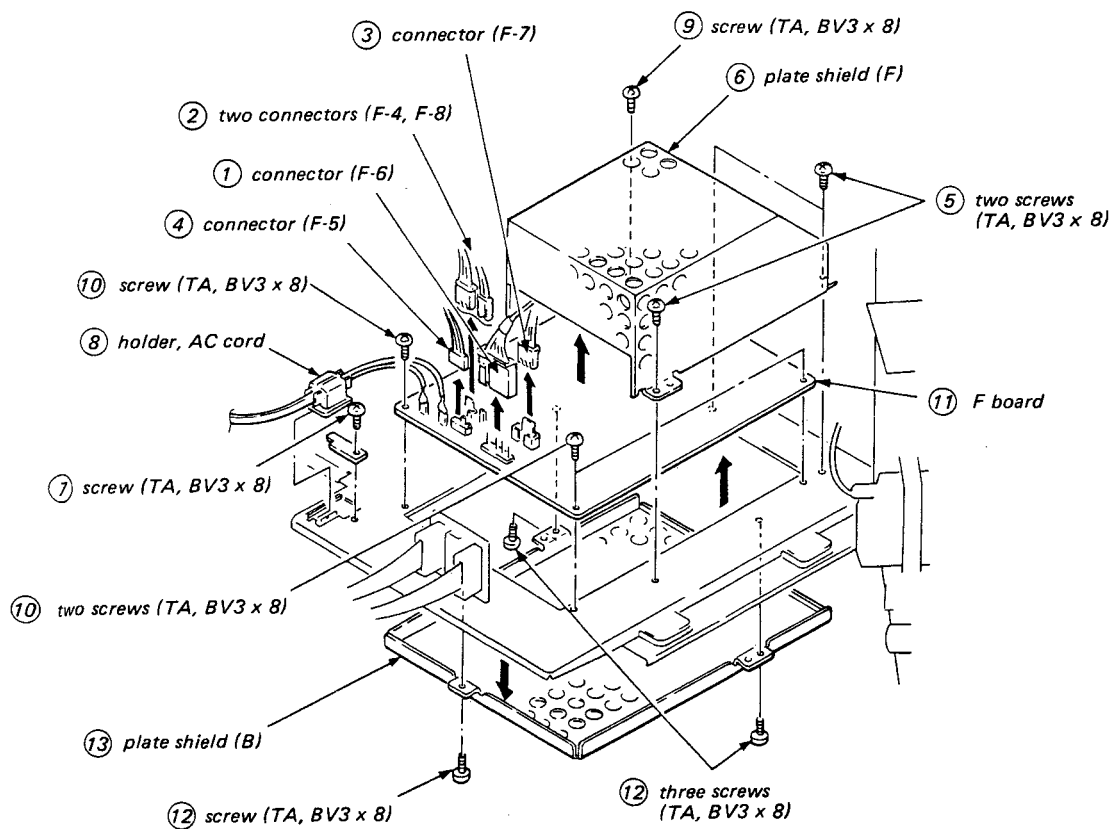




## 2-5. F BOARD REMOVAL (1)

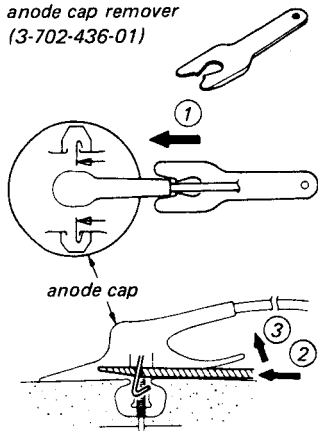


## 2-6. F BOARD REMOVAL (2)

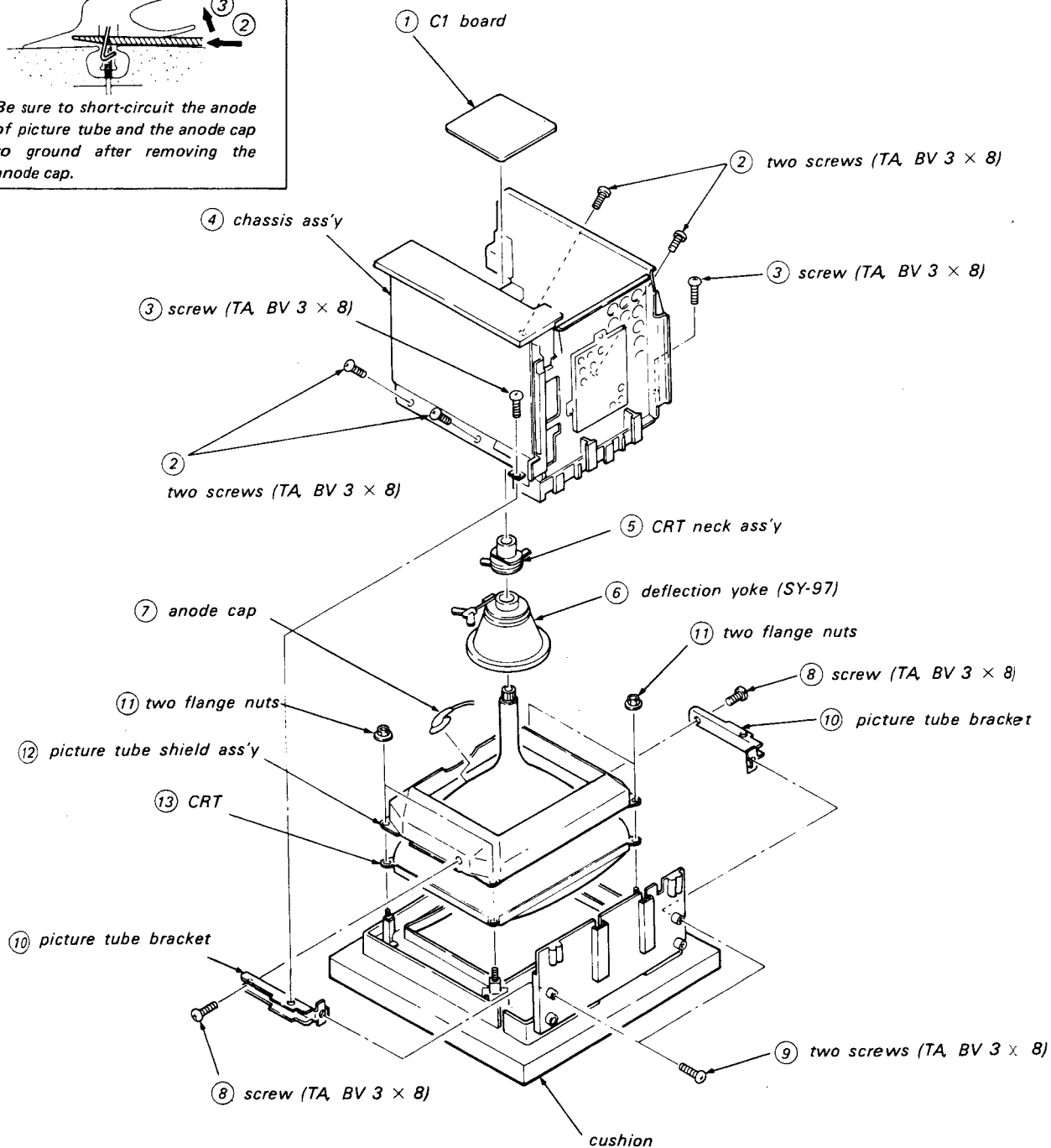


## 2-7. PICTURE TUBE REMOVAL

anode cap remover  
(3-702-436-01)



Be sure to short-circuit the anode  
of picture tube and the anode cap  
to ground after removing the  
anode cap.



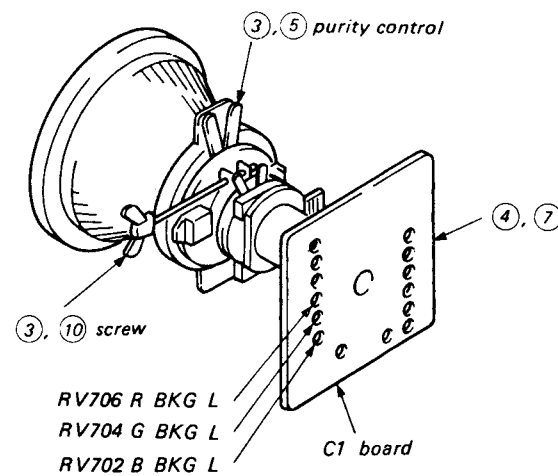
## SECTION 3 ADJUSTMENTS

### 3-1. SETUP ADJUSTMENTS

#### 3-1-1. BEAM LANDING

Landing Adjustment In the case of a 6,500°K color temperature, the number of VRs to be adjusted will differ.

- (1) Turn on set power supply and receive and all-white signal.
- (2) Evenly degauss the entire screen.
- (3) Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig. 3-1.
- (4) Set BKG volume RV706 (R) to maximum and set RV704 (G) and RV702 (B) to minimum.
- (5) Move the deflection yoke back, and adjust the purity control so that (R) is in the center and (G) and (B) are at the sides, evenly. (Fig. 3-2)
- (6) Move the deflection yoke forward so that the entire screen is R.
  - \* If the deflection yoke is pushed all the way to the CRT then moved slightly back, landing adjustment is easier.
- (7) Substitute (R), then (B) for (G) in step (4) and check landing.
- (8) Rotate (R), (G) and (B) once each and check landing.
- (9) When landing is not right, adjust the purity control and use magnets as shown in Fig. 3-3, then repeat steps (7) and (8).
- (10) When a magnet is used, be sure to perform step (2), and tighten deflection yoke mounting screw loosely.



Note: The circled numbers (3)-(7) and (10) shown above steps.

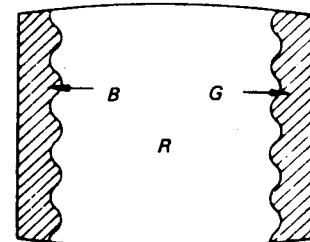
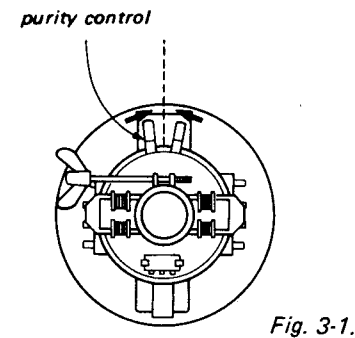


Fig. 3-2.

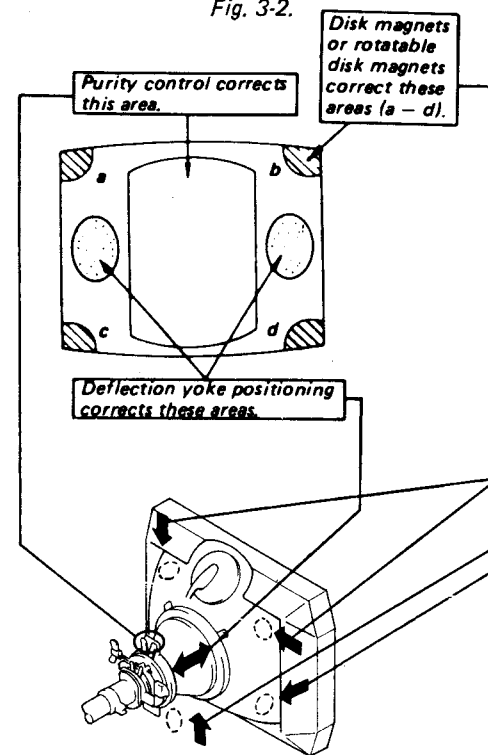
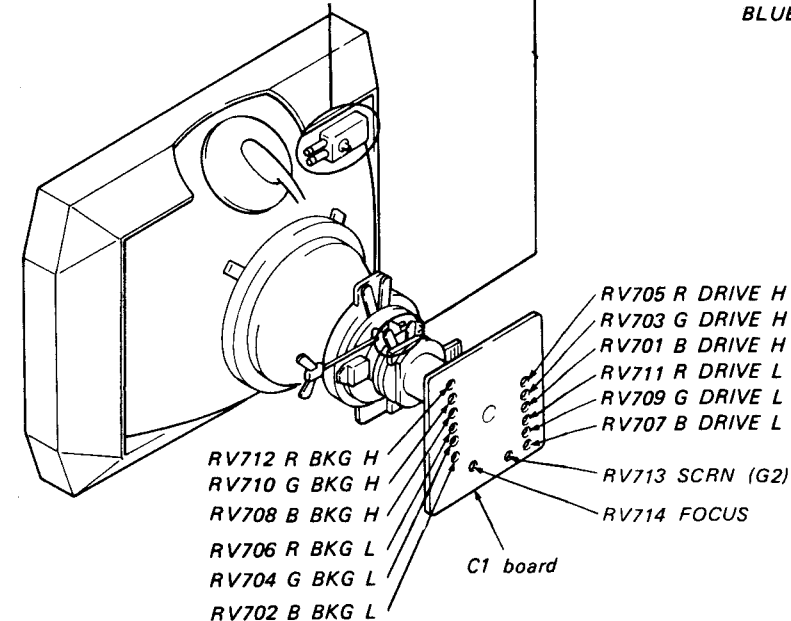
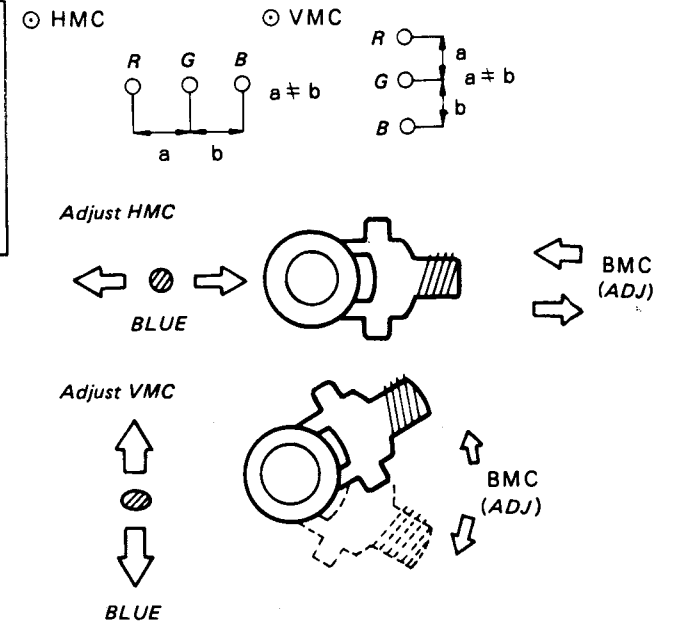
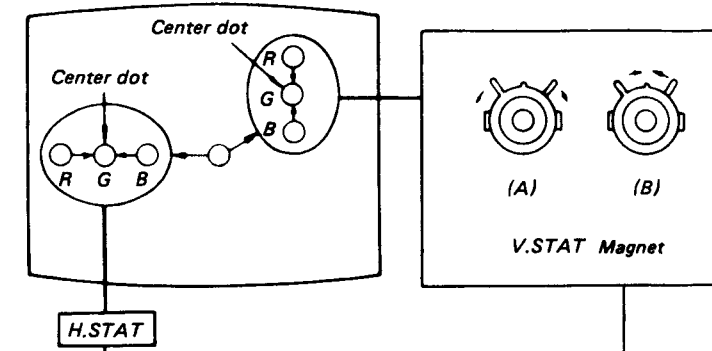


Fig. 3-3.

#### 3-1-2. CONVERGENCE

##### Preparation:

- Before starting, perform FOCUS, H.SIZE, V.SIZE and V.LIN adjustments.
- Set BRIGHTNESS control to fully counterclockwise.
- Feed in the dot pattern.

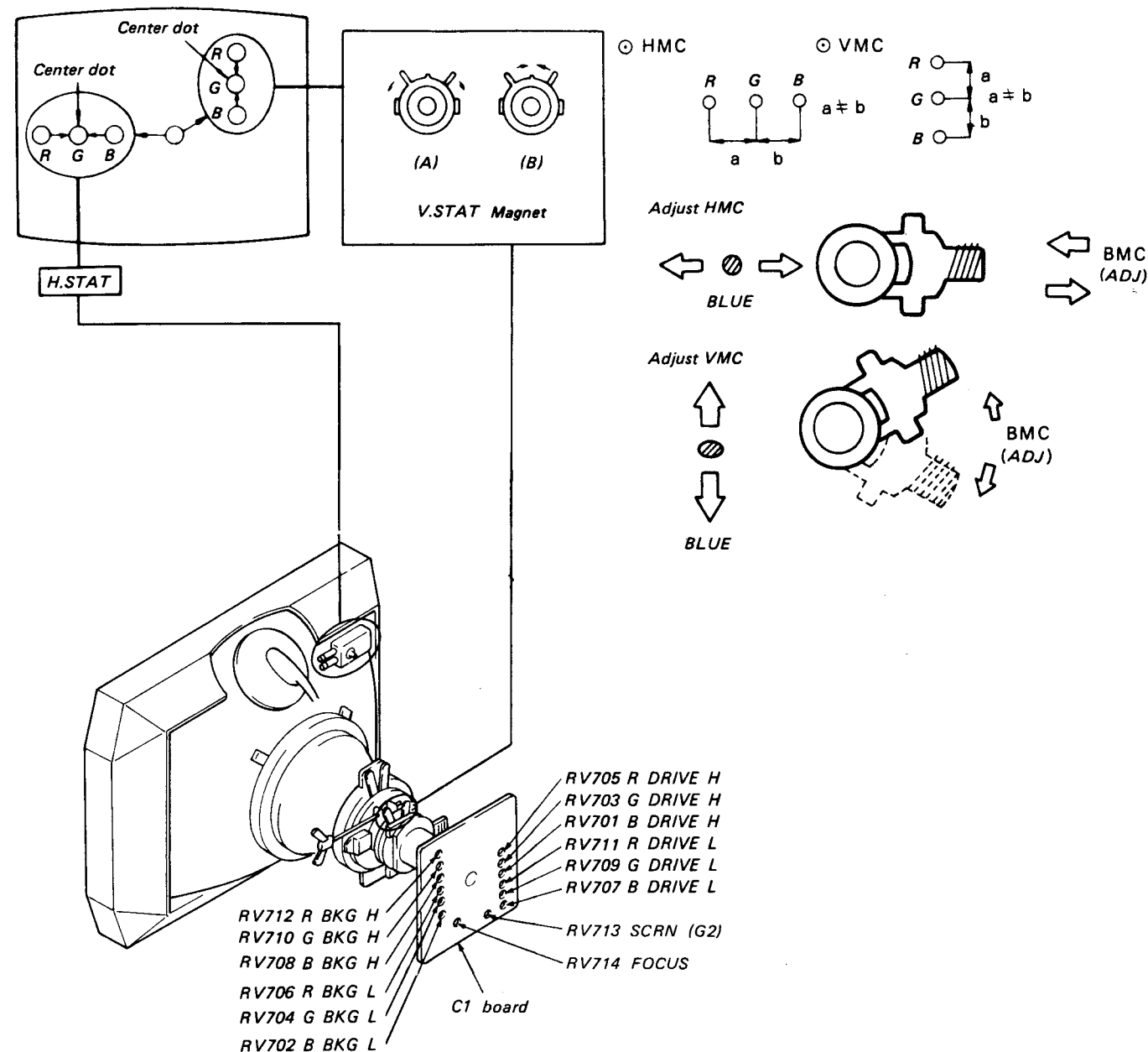


#### 3-1-3. FOCUS (RV714)

- (1) Feed in monoscope signal, (PICTURE: 80%, BRIGHT: 50%)
- (2) Adjust RV714 for best Focus.

**3-1-2. CONVERGENCE****Preparation:**

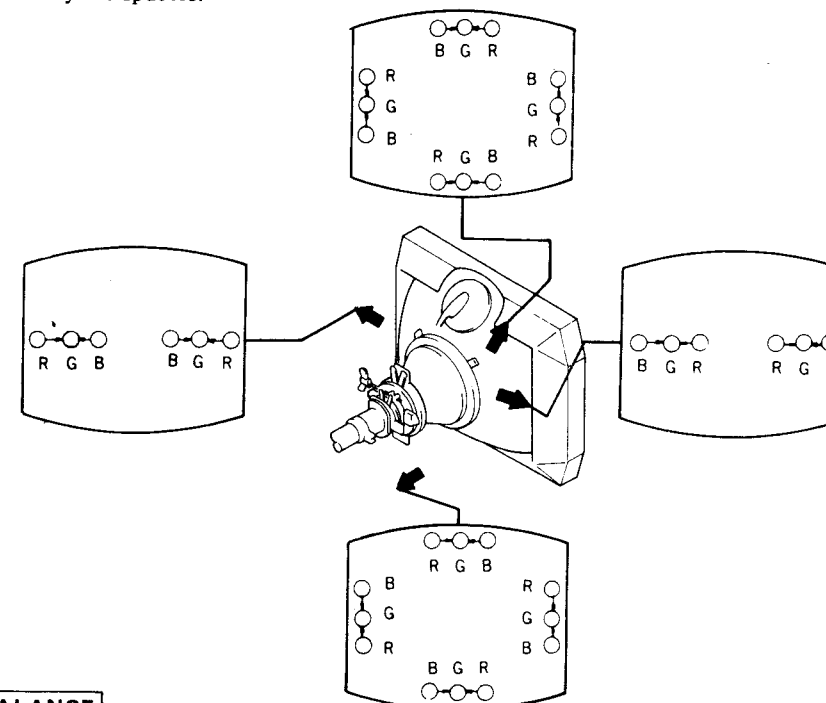
- Before starting, perform FOCUS, H.SIZE, V.SIZE and V.LIN adjustments.
- Set BRIGHTNESS control to fully counterclockwise.
- Feed in the dot pattern.

**3-1-3. FOCUS (RV714)**

- (1) Feed in monoscope signal, (PICTURE: 80%, BRIGHT: 50%)
- (2) Adjust RV714 for best Focus.

**(2) Dynamic Convergence Adjustment****Preparation:**

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.
1. Loosen deflection yoke screw.
  2. Remove deflection yoke spacers.
  3. Move the deflection yoke for best convergence as shown below.
  4. Tighten the deflection yoke screw.
  5. Install the deflection yoke spacers.

**3-1-4. WHITE BALANCE****Preparations****Adjustment of Screen (G2)**

- 1) Make the picture into minimum size by receiving monoscope signal, and set the brightness at 50%. The G1 voltage at the time should be  $5 \pm 1V$ .
- 2) Adjust BKG VR (RV702, RV704 and RV706) so that R.G.B. Cathode voltage becomes 110 V DC. Adjust with G2 VR (RV713) immediately prior to the disappearing of the luminescent line.

[For 6500°K Color Temperature:]

- (1) Receive a totally white signal from the pattern generator. Set BRIGHT at 50%, PICTURE at 0%, the various
- (2) Attach an oscilloscope to the input point B (blue) of C1 board, and perform adjusting with RV107 (SUB CONT VR) so that the signal of the maximum size of picture will become 1.8V.



- (3) BKG VR (RV702, 704, and 706) at 20%, and the various DRIVE VR (RV707, 709, and 711) at 80%. Adjust with SUB BRT VR (RV109) immediately prior to the disappearing of the picture.
- (4) Turn all the other BKG VR than the one for the color that started glowing first, and adjust the white balance at cut-off.
- (5) Adjust the high light side white balance with drive VR.
- (6) By turning other drive VR than the one for the color glowing the brightest of all, adjust the white balance. Repeat operating steps (3) and (4).

[For 9300°K Color Temperature:]

- (1) By turning BKG VR (RV708, 710, and 712) and drive VR (RV701, 703, and 705), make the same adjustment as in the 6500°K color temperature made.

3-2. CIRCUIT ADJUSTMENTS

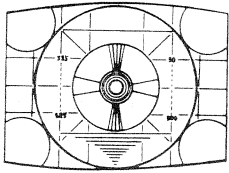
- Note: (1) TEST EQUIPMENT REQUIRED
- 1. Oscilloscope
  - 2. Digital multimeter
  - 3. Color-bar/pattern generator
- (2) INPUT SIGNAL
- When making these adjustment, supply a crosshatch, a color-bar, or an off-air signal.
- (3) CONTROL SETTING
- Controls and switch should be set as follows when making checks and adjustments unless otherwise noted.
- HUE control } . . . . . mechanical center
- COLOR control } . . . . . normal position
- PICTURE control . . . . . normal position
- (4) These adjustments should be performed with rated power, supply voltage, unless otherwise noted.

| Adjustment                                                                                                                      | Circuit board | Page     |
|---------------------------------------------------------------------------------------------------------------------------------|---------------|----------|
| PICTURE PHASE<br>HORIZONTAL DEFLECTION BLOCK<br>VERTICAL DEFLECTION BLOCK<br>HORIZONTAL OSCILLATION FREQUENCY                   | D             | 19, 20   |
| APC<br>CHROMA TRAP<br>COMB FILTER<br>KILLER POINT<br>ANTI-PAL LINE CRAWLING<br>SECAM<br>SUB BRIGHT<br>SUB COLOR<br>SUB CONTRAST | B             | 21 to 24 |

3-2-1. D BOARD ADJUSTMENTS

VERTICAL DEFLECTION ADJUSTMENT

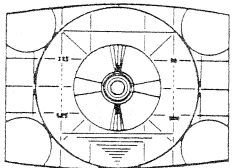
- (1) Recieve a monoscope signal.
- (2) PIC VR 80%, BRT VR click postion.
- (3) Adjust RV502 so that V bias is 13.0 ±0.5 V.
- (4) Adjust with V SIZE (RV501) and V CENT (RV505) so that there are the same number of frames at top and bottom in the vertical direction.
- (5) Steps (3) and (4) affect each other, so repeat when adjusting.



(monoscope signal)

HORIZONTAL DEFLECTION ADJUSTMNET

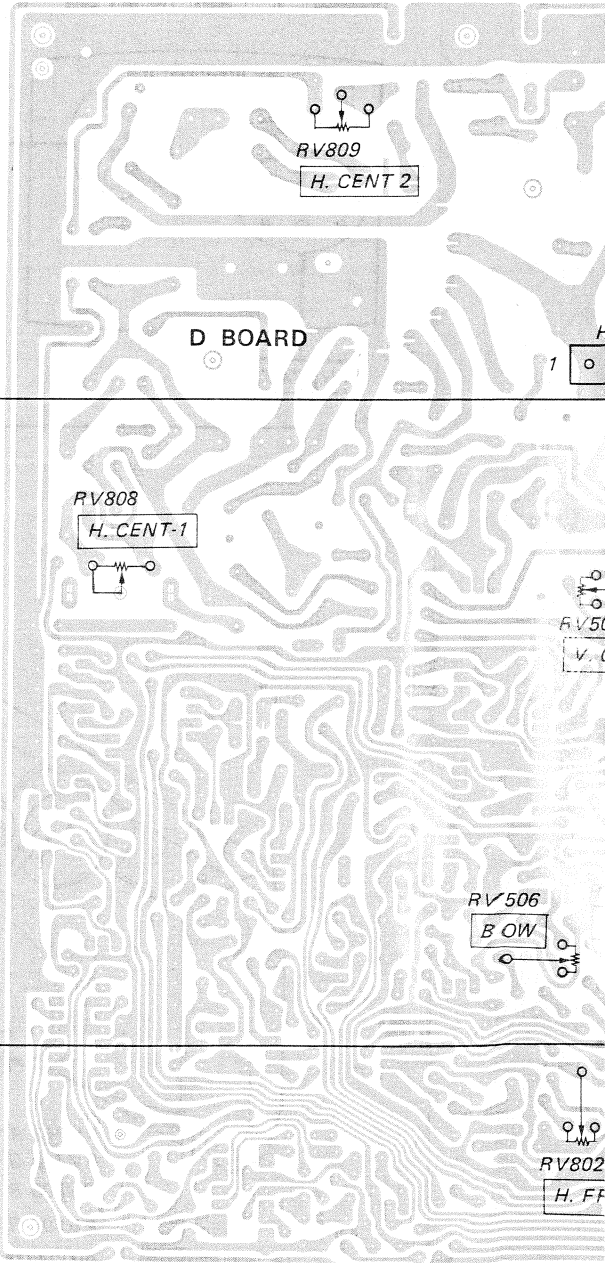
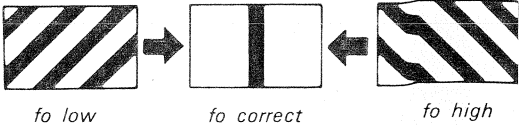
- (1) Adjust with H SIZE RV803 so that the monoscope pattern is the same size at left and right.
- (2) Adjust for same number of frames at right and left with H CENT (RV808).
- (3) Turn RV506 (BOW) and RV507 (V. ANG), and by connecting distortions of parallel quadrangle and BOW, adjust so that the vertical lines at both extremes of the picture become straight with RV805 (PIN AMP).



(monoscope signal)

HORIZONTAL OSCILLATION FREQUENCY ADJUSTMENT

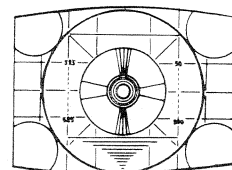
- (1) Receive a monoscope signal.
- (2) Picture VR 80%. (BRT 50%)
- (3) Connect to ground IC501 Pin ① with chemical conductor of 10 μF/50 V.
- (4) Adjust with RV802 (H. FREQ) as shown in figure.
- (5) Set the AFC F/S switch to slow and make sure that the horizontal oscillation frequency stops the image from flowing.



### 3-2-1. D BOARD ADJUSTMENTS

#### VERTICAL DEFLECTION ADJUSTMENT

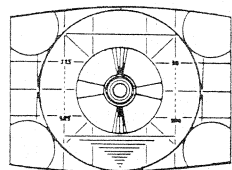
- (1) Receive a monoscope signal.
- (2) PIC VR 80%, BRT VR click position.
- (3) Adjust RV502 so that V bias is  $13.0 \pm 0.5$  V.
- (4) Adjust with V SIZE (RV501) and V CENT (RV505) so that there are the same number of frames at top and bottom in the vertical direction.
- (5) Steps (3) and (4) affect each other, so repeat when adjusting.



(monoscope signal)

#### HORIZONTAL DEFLECTION ADJUSTMENT

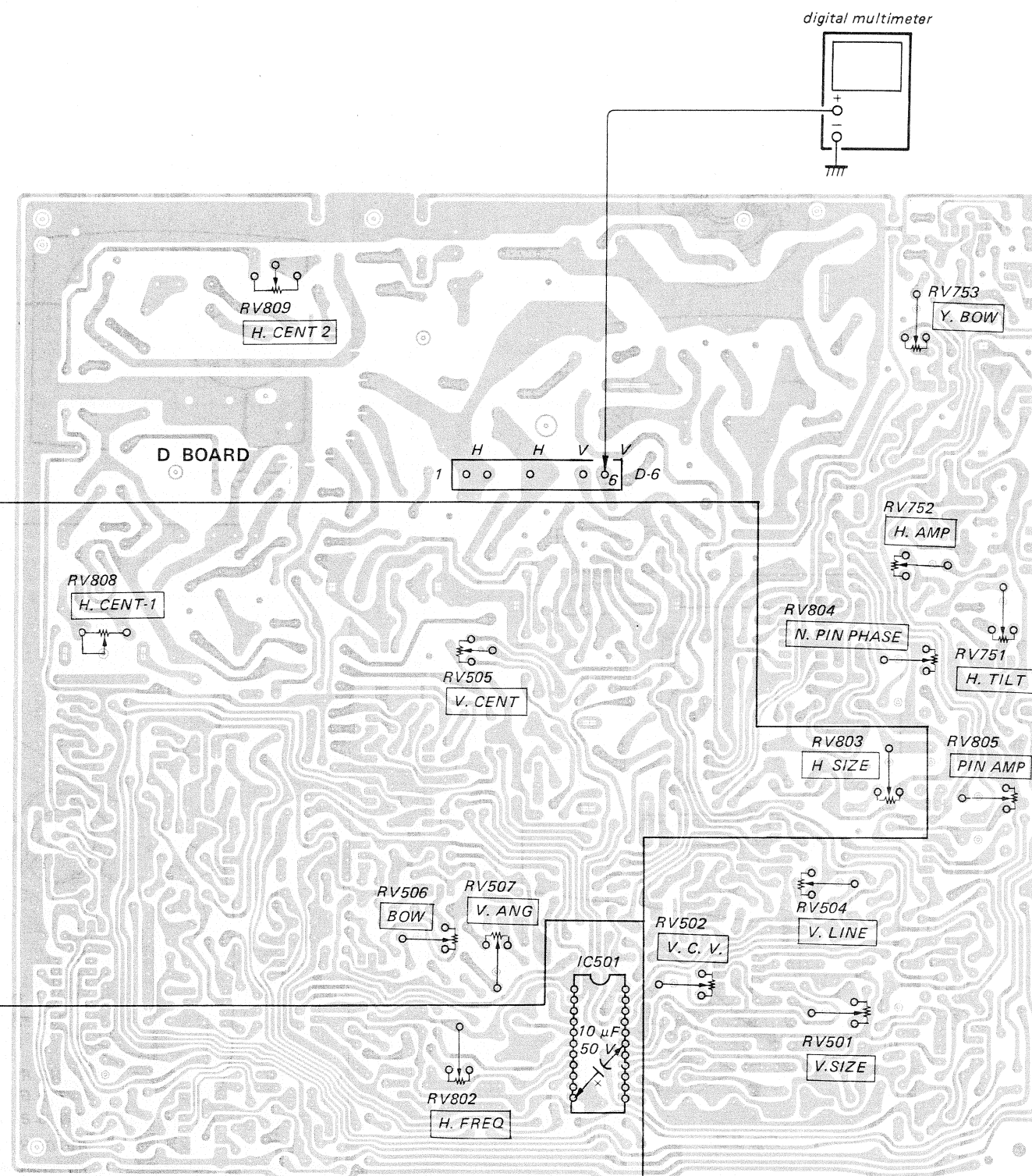
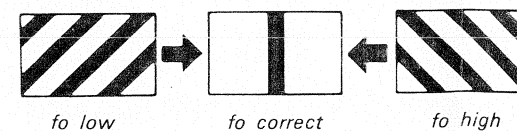
- (1) Adjust with H SIZE RV803 so that the monoscope pattern is the same size at left and right.
- (2) Adjust for same number of frames at right and left with H CENT (RV808).
- (3) Turn RV506 (BOW) and RV507 (V. ANG), and by connecting distortions of parallel quadrangle and BOW, adjust so that the vertical lines at both extremes of the picture become straight with RV805 (PIN AMP).



(monoscope signal)

#### HORIZONTAL OSCILLATION FREQUENCY ADJUSTMENT

- (1) Receive a monoscope signal.
- (2) Picture VR 80%. (BRT 50%)
- (3) Connect to ground IC501 Pin ① with chemical conductor of  $10 \mu\text{F}/50$  V.
- (4) Adjust with RV802 (H. FREQ) as shown in figure.
- (5) Set the AFC F/S switch to slow and make sure that the horizontal oscillation frequency stops the image from flowing.





### 3-2-2. B BOARD ADJUSTMENTS

#### APC ADJUSTMENT

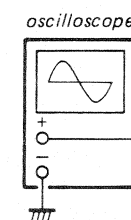
- (1) 4.43 (APC-2) ADJUSTMENT
  - 1) Input a PAL color bar.
  - 2) Connect a 100 k $\Omega$  resistor between IC103 pin (13) and ground. (Killer circuit goes off.)
  - 3) Connect IC104 pin (2) to +B via the 2.2 k $\Omega$  resistor to get 4.43 mode.
  - 4) Ground IC103 pin (16) with a 10  $\mu$ /16 V chemical capacitor and remove color sync.
  - 5) Adjust RV105 (APC-2) to get color sync.
- (2) 3.58 (APC-1) Adjustment.
  - 1) Input a NTSC color bar.
  - 2) Connect a 100 k $\Omega$  resistor between IC103 pin (13) and ground. (Killer circuit goes off.)
  - 3) Ground IC103 pin (16) with a 10  $\mu$ /16 V chemical capacitor and remove color sync.
  - 4) Ground Q139 base momentarily to get 3.58 mode.
  - 5) Adjust RV104 (APC-1) to get color sync.

#### ANTI-PAL, LINE CRAWLING ADJUSTMENT

- (1) Anti-PAL Adjustmnet
  - 1) Input a PAL color bar.
  - 2) PICTURE 80%
  - COLOR 50%
  - BRT 50%
  - 3) Confirm that there is no color on the first anti-PAL signal frames at the right and left of the picture. If sides while tracking with RV103, RV110 (DEL).
- (2) Line Crawling Adj
  - 1) Input a PAL co
  - 2) Adjust T104 (C
  - 3) Confirm the an
  - (2) and (1) if ne

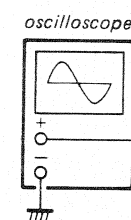
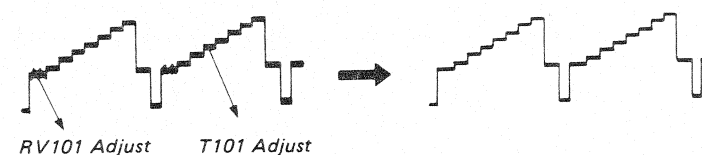
#### CHROMA TRAP ADJUSTMENT

- (1) 4.43 Trap Adjustment
  - 1) Input a PAL color bar.
  - 2) Observe IC103 pin (5) waveform on the oscilloscope and adjust T103 for minimum chrome component.
- (2) SECAM Trap Adjustment.
  - 1) Input a SECAM color bar.
  - 2) Observe IC103 pin (5) waveform on the oscilloscope and adjust T102 for minimum chrome component.



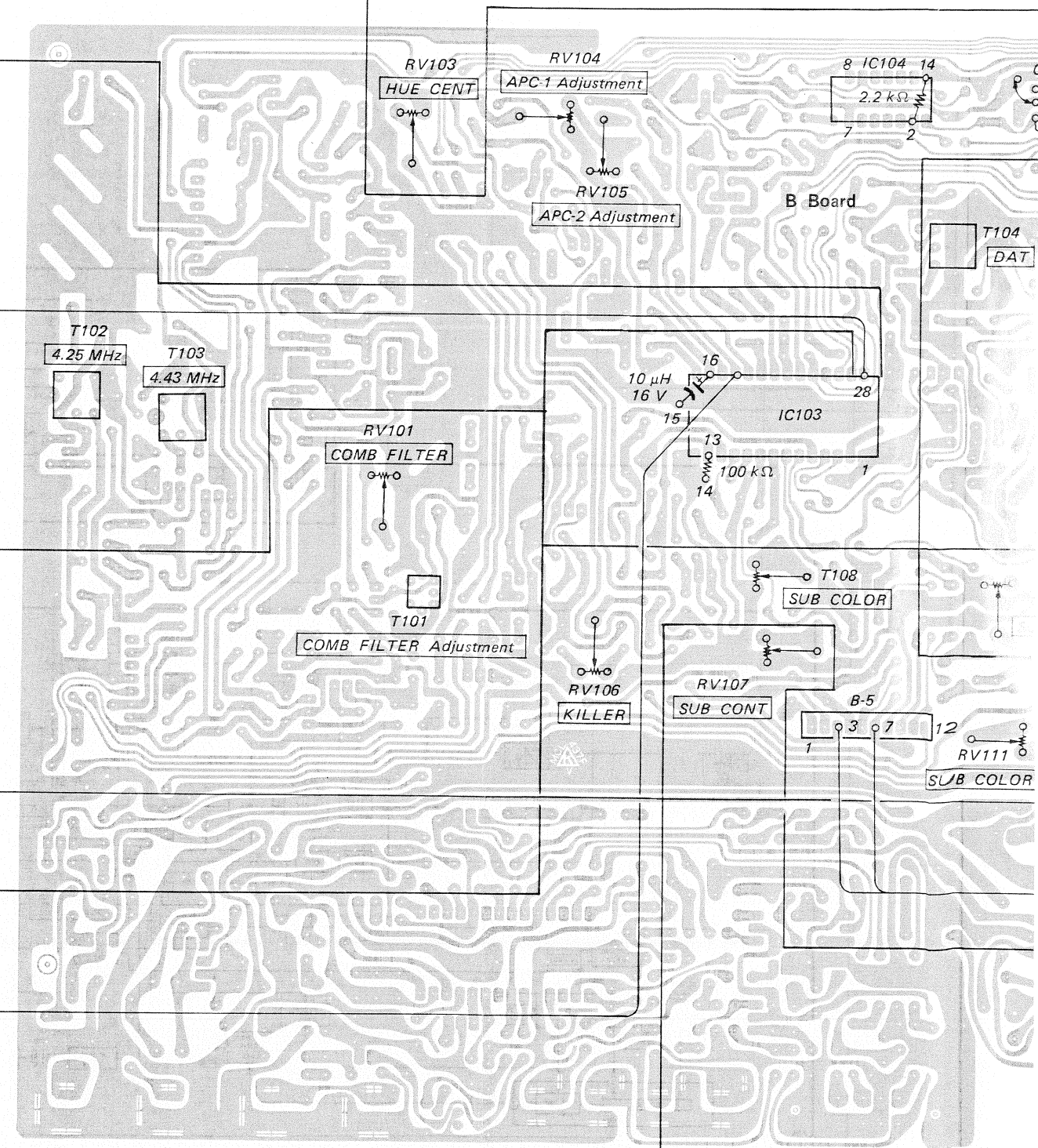
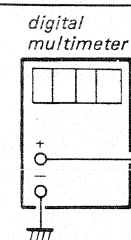
#### COMB FILTER ADJUSTMENT

- (1) 1H Delay Adjustment
  - 1) Input a NTSC color bar.
  - 2) Observe the IC103 Pin (5) waveform on the oscilloscope, and adjust so that the chroma component is minimum while tracking with RV101 and T101.



#### KILLER POINT ADJUSTMENT

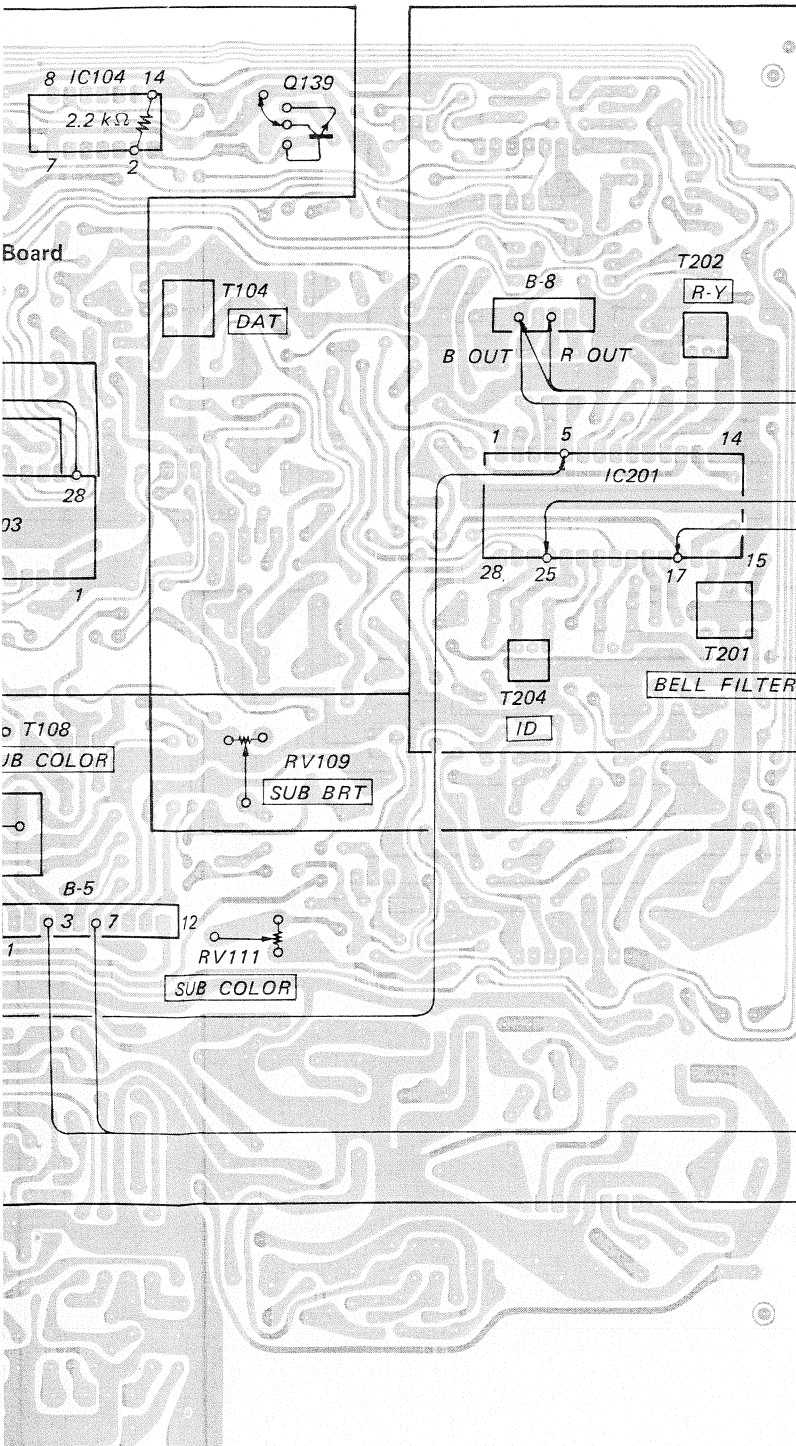
- 1) Tune in an off-air signal.
- 2) Adjust RV106 so that the voltage on pin (13) of IC103 is 7.9 V  $\pm$  0.1 V dc.



## (2) Line Crawling Adjustment

- 1) Input a PAL color bar.
- 2) Adjust T104 (DAT) for minimum line crawling.
- 3) Confirm the anti-PAL adjustment in (1), and repeat (2) and (1) if necessary.

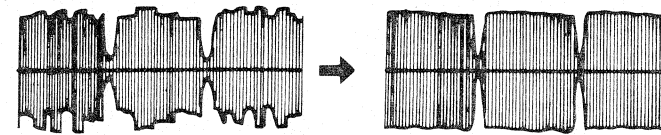
AL  
If



## SECAM ADJUSTMENT

## (1) Bell Filter Adjustment

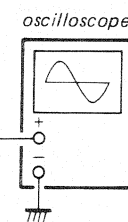
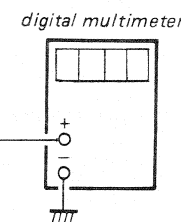
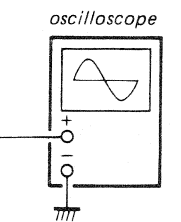
- 1) Input a SECAM color bar.
- 2) Observe IC201 pin ① waveform and adjust T201 (bell filter) so that the waveform level is uniform.



## (2) ID Adjustment (Intermodulation distortion)

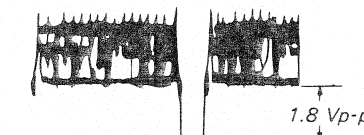
- 1) Input a SECAM color bar.
- 2) Connect a digital voltmeter between IC201 pin ② and ground, and adjust T204 so that the digital voltmeter reading is maximum.

(Adjust for variance from the peak value to be at 0 V in the core outserting direction, and within a 0.02 V range in the core inserting direction.)



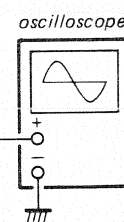
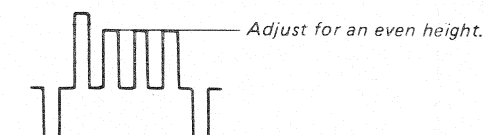
## SUB BRIGHT ADJUSTMENT

- 1) Receive a monoscope signal.
- 2) Set BRIGHT and PICTURE for minimum position.
- 3) Observe B-8 connector pin ① (B out) on the oscilloscope, and adjust RV109 (sub-bright) so that the pedestal level is 1.8 V dc.



## SUB COLOR ADJUSTMENT

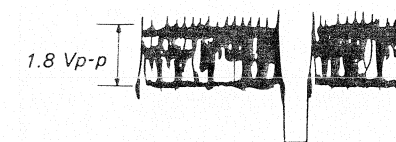
- 1) Input SECAM color bars.
- 2) PICTURE 80%  
COLOR 50%  
BRT 50%
- 3) Adjust RV111 for the waveform at connector B-8 ① (B Out) to become as illustrated.
- 4) Receive PAL color bars.
- 5) Adjust RV108 for the waveform at connector B-8 ① (B Out) to become as illustrated.



## SUB CONTRAST ADJUSTMENT

- 1) Input a monoscope signal.
- 2) PICTURE: maximum (turned fully clockwise)  
BRIGHT: mechanical center

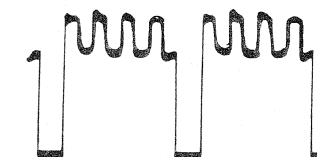
- 3) Observe B-8 connector pin ① (B out) on the oscilloscope and adjust the sub contrast control (RV107). So that the signal component is 1.8 Vp-p.



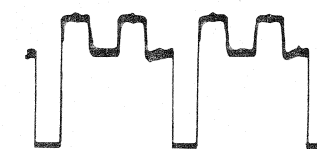
## (3) Color Balance Adjustment.

- 1) Input a SECAM color bar.
- 2) PICTURE 80%  
COLOR 50%  
BRT 50%

- 3) Observe B-8 connector pin ① (B Out) waveform on the oscilloscope and adjust T203 (B-Y) so that the black portion of the color bar is the same level as the pedestal.



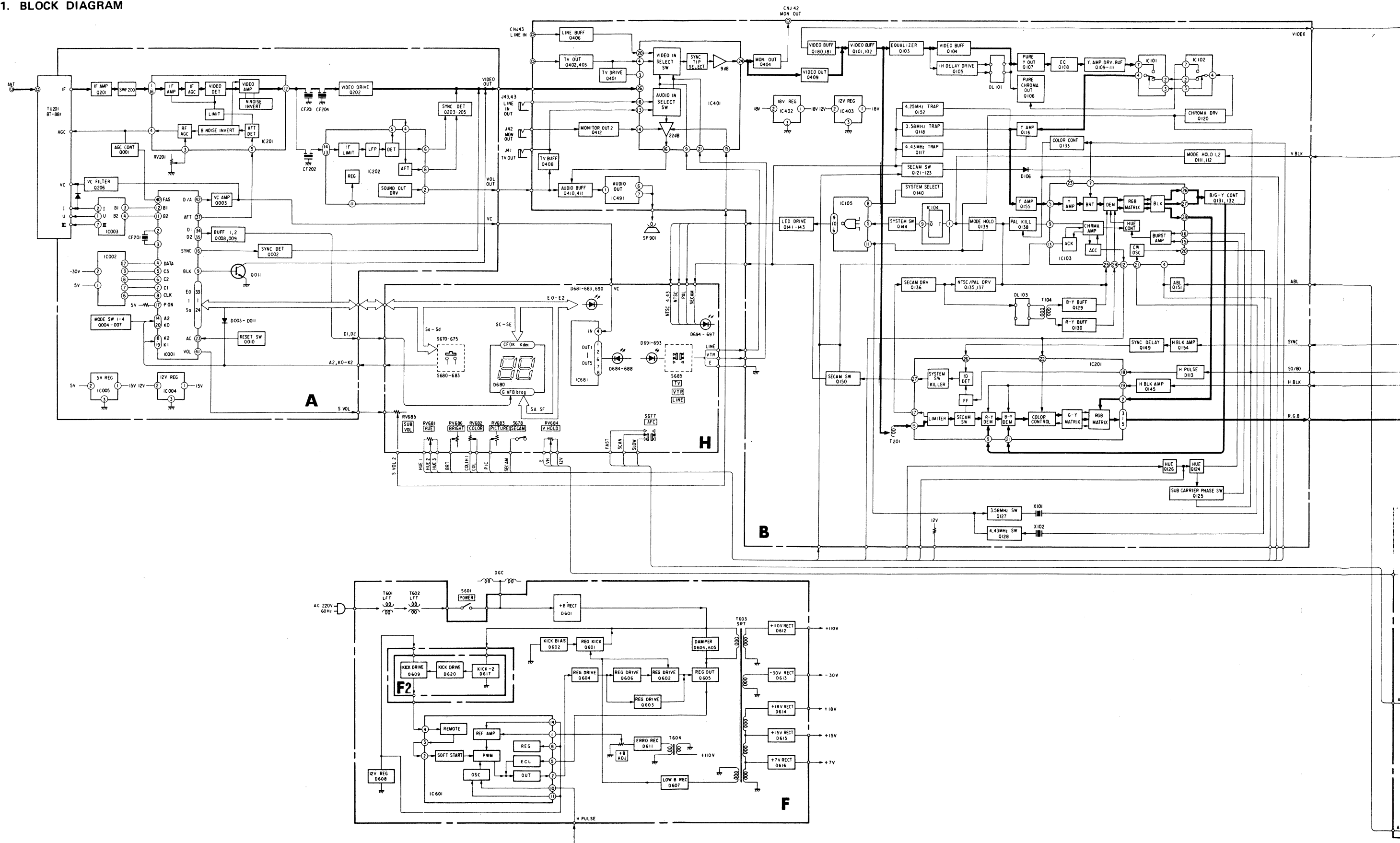
- 4) Observe B-8 connector pin ③ (R Out) waveform on the oscilloscope and adjust T202 (R-Y) so that the black portion of the color bar is the same level as the pedestal.

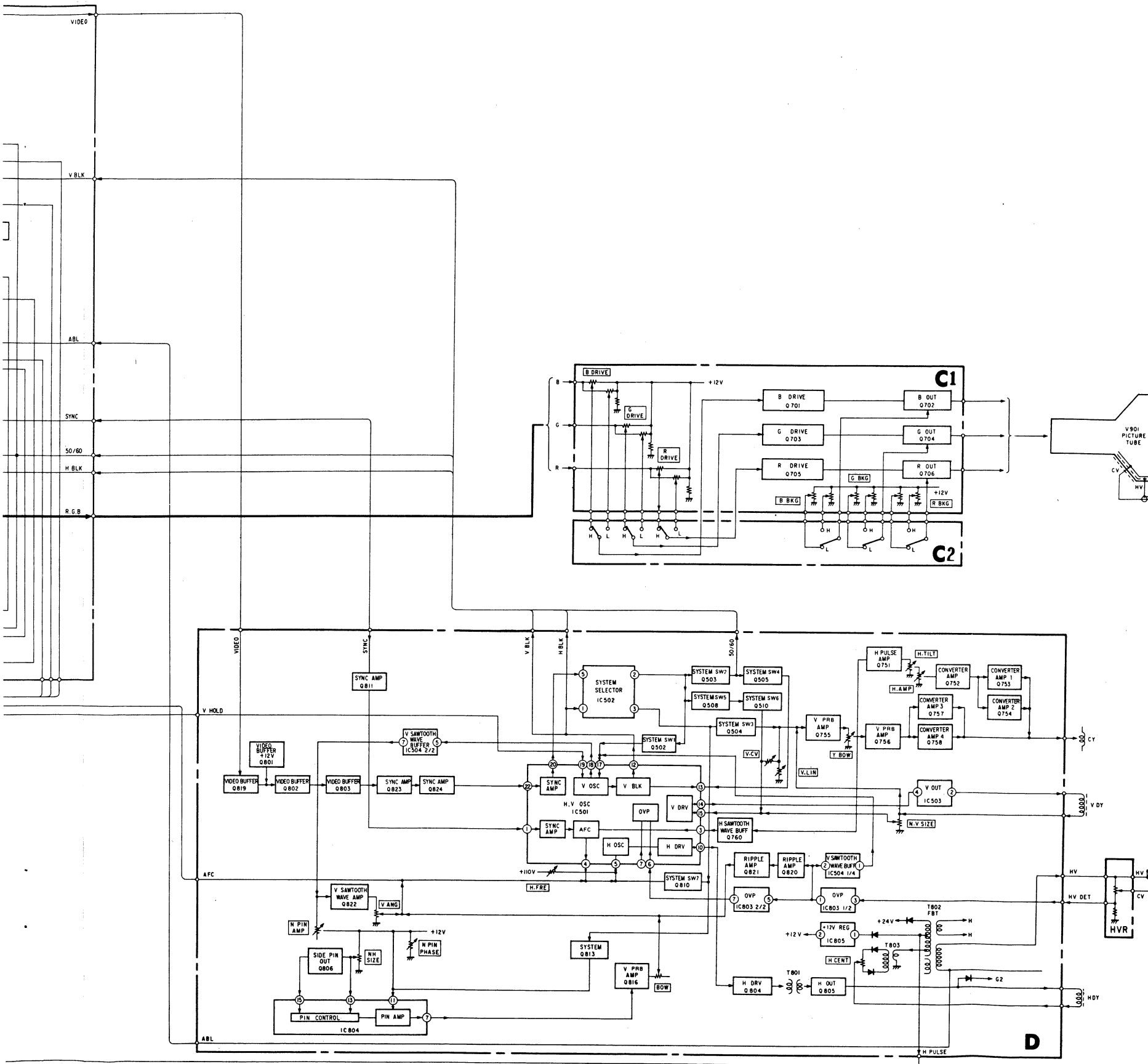




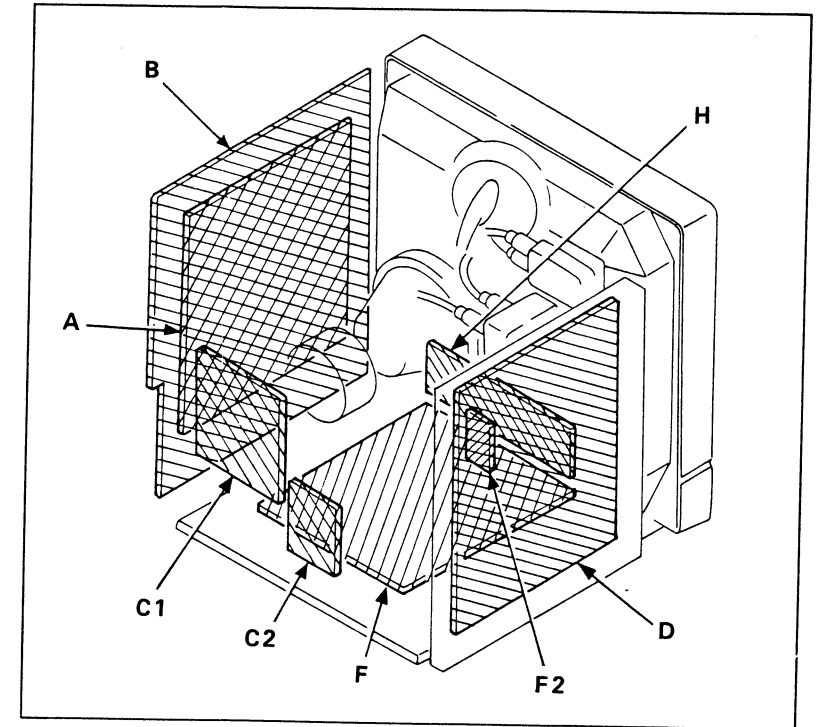
## DIAGRAMS

#### 4-1. BLOCK DIAGRAM



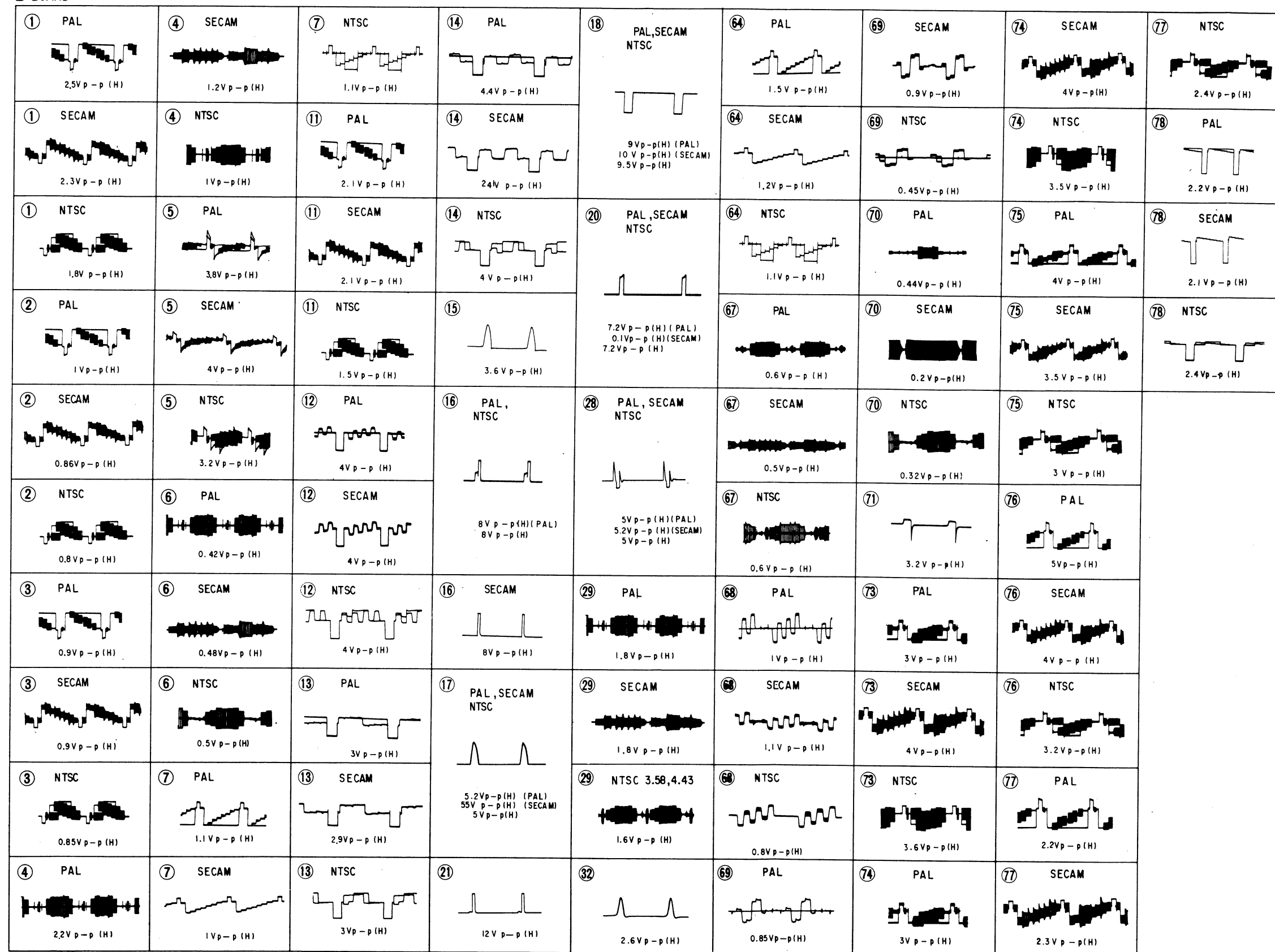


#### 4-2. CIRCUIT BOARDS LOCATION

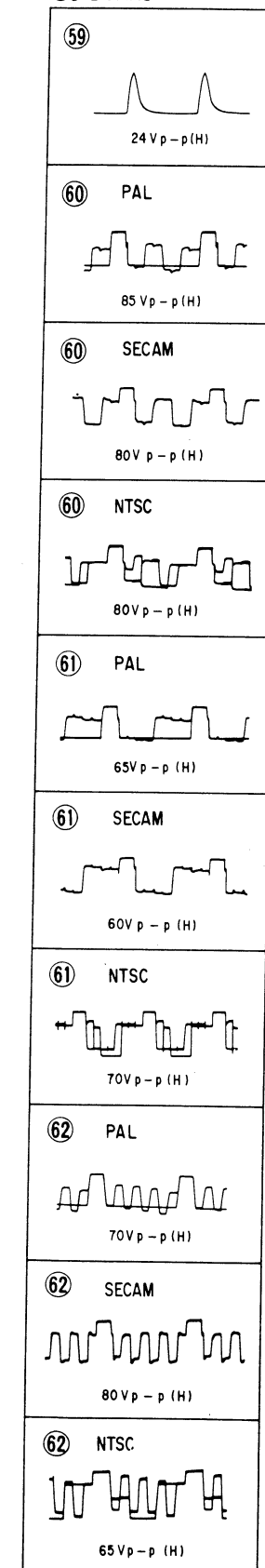


4-3. WAVEFORMS

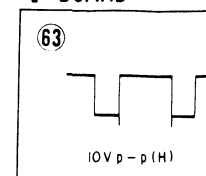
B BOARD



C1 BOARD



F BOARD



|                             |                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 64 PAL<br><br>1.5V p-p(H)   | 69 SECAM<br><br>0.9V p-p(H) | 74 SECAM<br><br>4V p-p(H)   | 77 NTSC<br><br>2.4V p-p(H)  |
| 64 SECAM<br><br>1.2V p-p(H) | 69 NTSC<br><br>0.45V p-p(H) | 74 NTSC<br><br>3.5V p-p(H)  | 78 PAL<br><br>2.2V p-p(H)   |
| 64 NTSC<br><br>1.1V p-p(H)  | 70 PAL<br><br>0.44V p-p(H)  | 75 PAL<br><br>4V p-p(H)     | 78 SECAM<br><br>2.1V p-p(H) |
| 67 PAL<br><br>0.6V p-p(H)   | 70 SECAM<br><br>0.2V p-p(H) | 75 SECAM<br><br>3.5V p-p(H) | 78 NTSC<br><br>2.4V p-p(H)  |
| 67 SECAM<br><br>0.5V p-p(H) | 70 NTSC<br><br>0.32V p-p(H) | 75 NTSC<br><br>3V p-p(H)    |                             |
| 67 NTSC<br><br>0.6V p-p(H)  | 71<br><br>3.2V p-p(H)       | 76 PAL<br><br>5V p-p(H)     |                             |
| 68 PAL<br><br>1V p-p(H)     | 73 PAL<br><br>3V p-p(H)     | 76 SECAM<br><br>4V p-p(H)   |                             |
| 68 SECAM<br><br>1.1V p-p(H) | 73 SECAM<br><br>4V p-p(H)   | 76 NTSC<br><br>3.2V p-p(H)  |                             |
| 68 NTSC<br><br>0.8V p-p(H)  | 73 NTSC<br><br>3.6V p-p(H)  | 77 PAL<br><br>2.2V p-p(H)   |                             |
| 69 PAL<br><br>0.85V p-p(H)  | 74 PAL<br><br>3V p-p(H)     | 77 SECAM<br><br>2.3V p-p(H) |                             |

C1 BOARD

|                            |
|----------------------------|
| 59<br><br>24V p-p(H)       |
| 60 PAL<br><br>85V p-p(H)   |
| 60 SECAM<br><br>80V p-p(H) |
| 60 NTSC<br><br>80V p-p(H)  |
| 61 PAL<br><br>65V p-p(H)   |
| 61 SECAM<br><br>60V p-p(H) |
| 61 NTSC<br><br>70V p-p(H)  |
| 62 PAL<br><br>70V p-p(H)   |
| 62 SECAM<br><br>80V p-p(H) |
| 62 NTSC<br><br>65V p-p(H)  |

F BOARD

|                      |
|----------------------|
| 63<br><br>10V p-p(H) |
|----------------------|

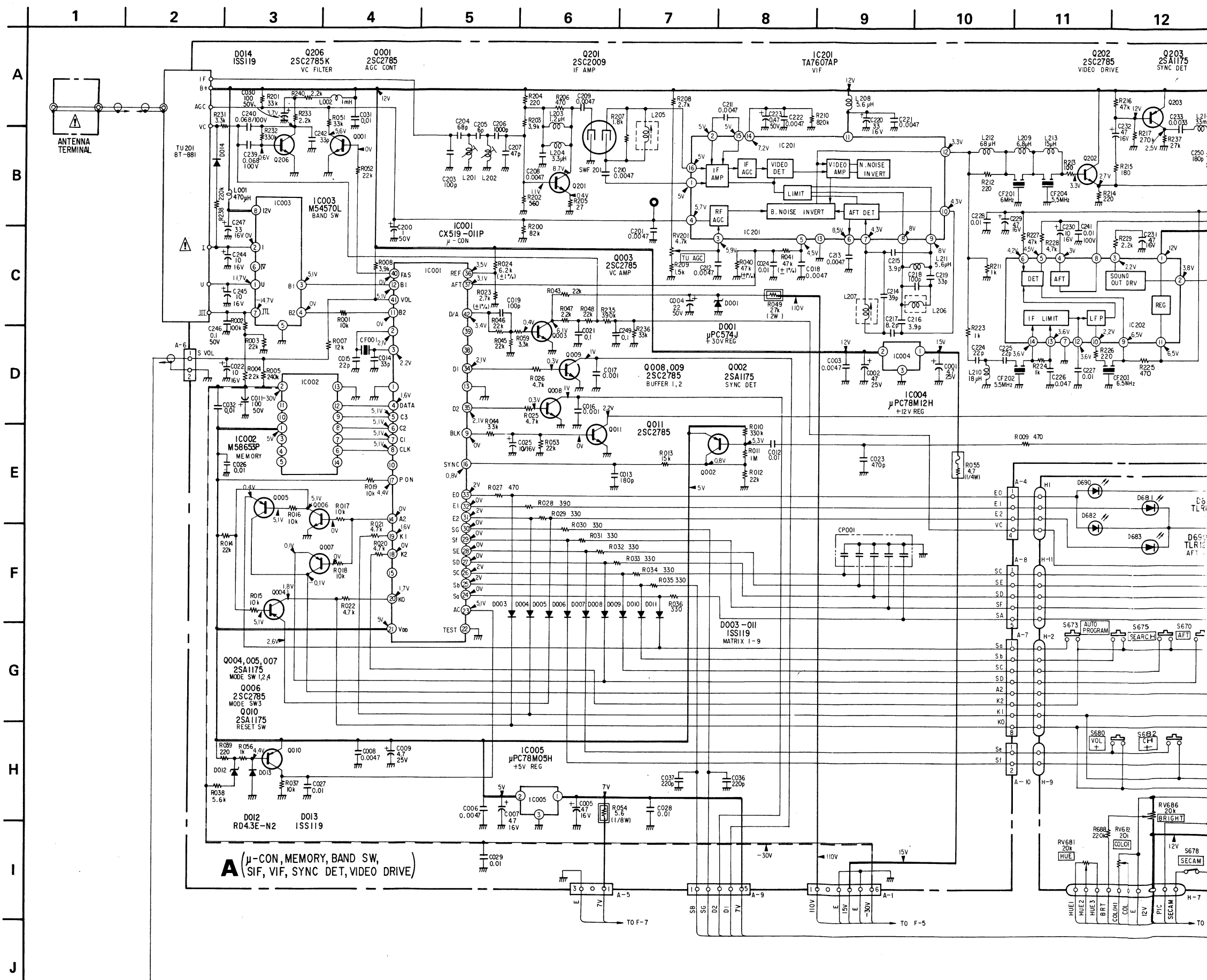
D BOARD

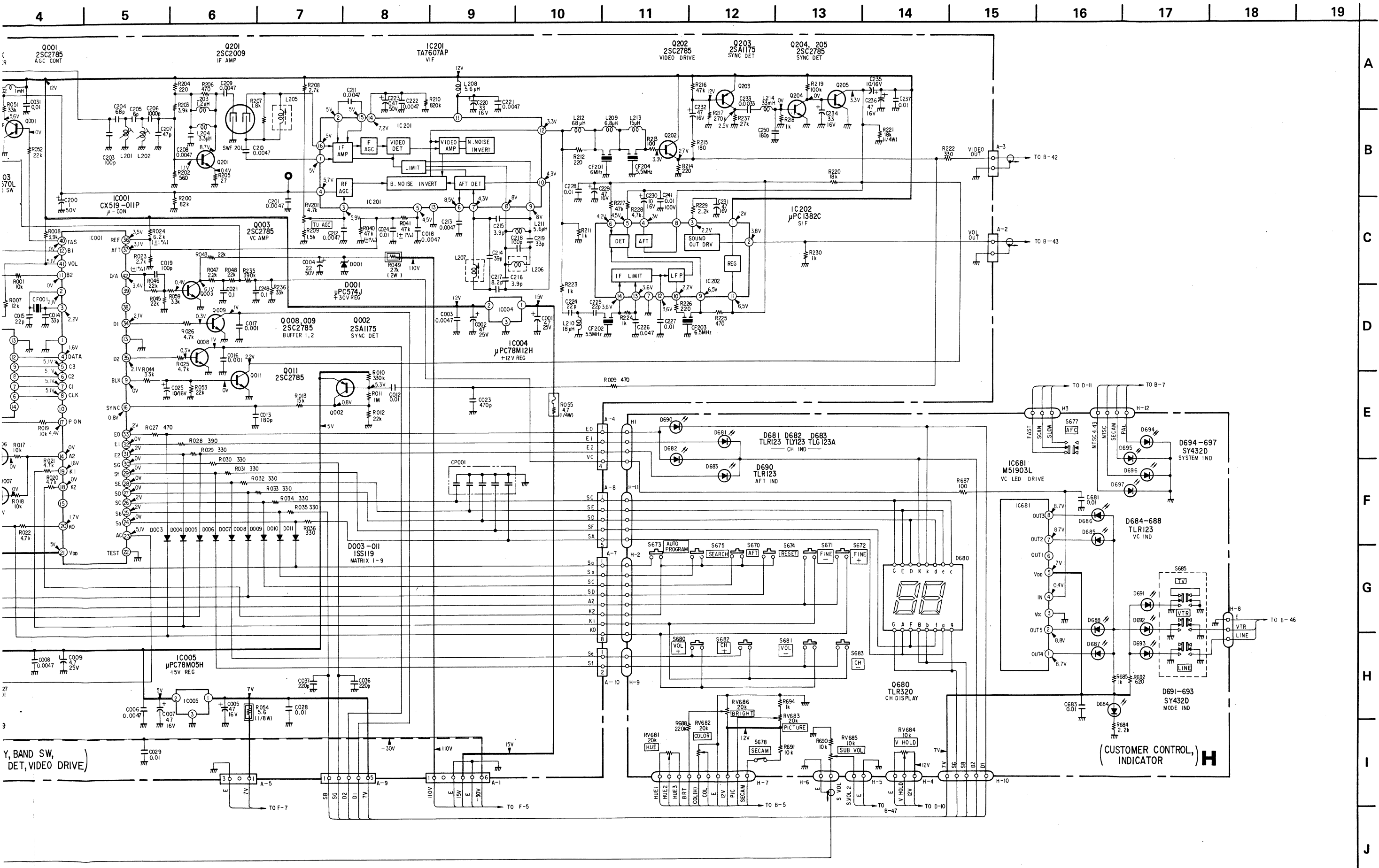
|                             |                        |                       |                             |
|-----------------------------|------------------------|-----------------------|-----------------------------|
| 35 PAL<br><br>1.5V p-p(H)   | 43<br><br>3.2V p-p(V)  | 57<br><br>900V p-p(H) | 87<br><br>12V p-p(H)        |
| 35 SECAM<br><br>1.6V p-p(H) |                        | 58<br><br>4.4V p-p(H) | 88 PAL<br><br>1.3V p-p(H)   |
| 35 NTSC<br><br>1.8V p-p(H)  |                        |                       | 88 SECAM<br><br>1.5V p-p(H) |
|                             | 46<br><br>45V p-p(V)   | 80<br><br>12V p-p(H)  | 88 NTSC<br><br>1.7V p-p(H)  |
|                             | 47<br><br>1.1V p-p(V)  | 81<br><br>3.8V p-p(V) |                             |
| 38<br><br>4V p-p(H)         | 48<br><br>6V p-p(V)    | 82<br><br>3.6V p-p(V) |                             |
| 39<br><br>3.4V p-p(V)       | 49<br><br>1V p-p(V)    | 83<br><br>7.2V p-p(H) |                             |
| 40<br><br>2.2V p-p(V)       | 51<br><br>0.5V p-p(V)  | 84<br><br>3V p-p(H)   |                             |
| 41<br><br>11.5V p-p(V)      | 52<br><br>0.36V p-p(V) | 85<br><br>3V p-p(V)   |                             |
| 42<br><br>10V p-p(H)        | 55<br><br>210V p-p(H)  | 86<br><br>24V p-p(H)  |                             |

## 4-4. SCHEMATIC DIAGRAM

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{pF}$  50WV or less are not indicated except for electrolytics.
- All resistors are in ohms,  $\frac{1}{4}\text{W}$  unless otherwise noted. k $\Omega$ : 1000  $\Omega$ , M $\Omega$ : 1000 k $\Omega$
-  : nonflammable resistor.
-  : fusible resistor.
-  : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input, to LINE A.
- Voltages are dc with respect to ground unless otherwise noted.
- The voltage value of IC601, Q601 to Q606 of F board and Q609 of F2 board is the reference value between the Q604 emitter.
- Reading are taken with a 10 M $\Omega$  digital multimeter.
-  : adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
-  : B+ bus.
-  : B- bus.
- ① : The number indicates No. of a waveform diagram. For the waveform diagram, refer to page 29-31.
- no mark : PAL
- ( ) : SECAM
- [ ] : NTSC 4.43
- • : Can not be measured





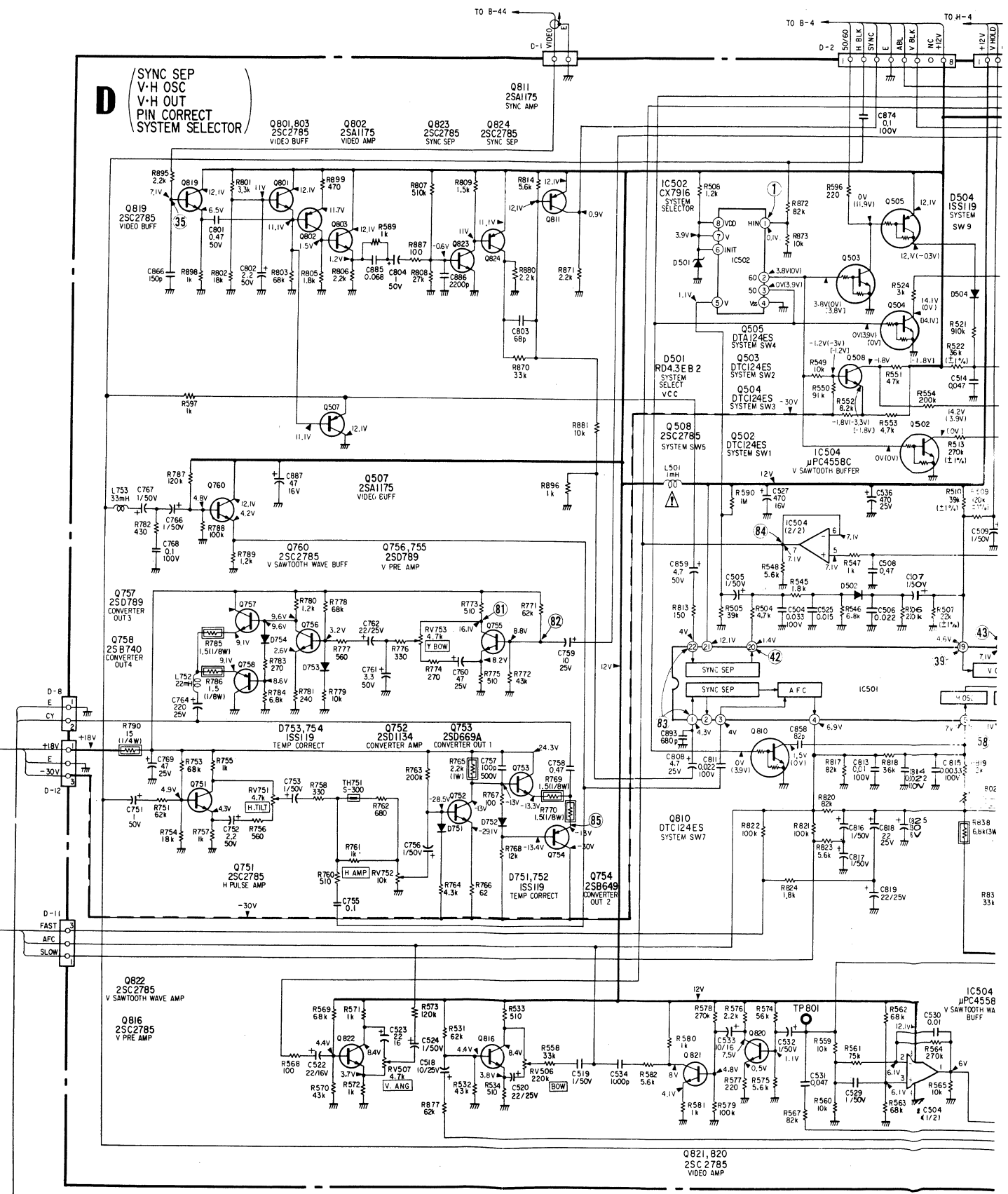
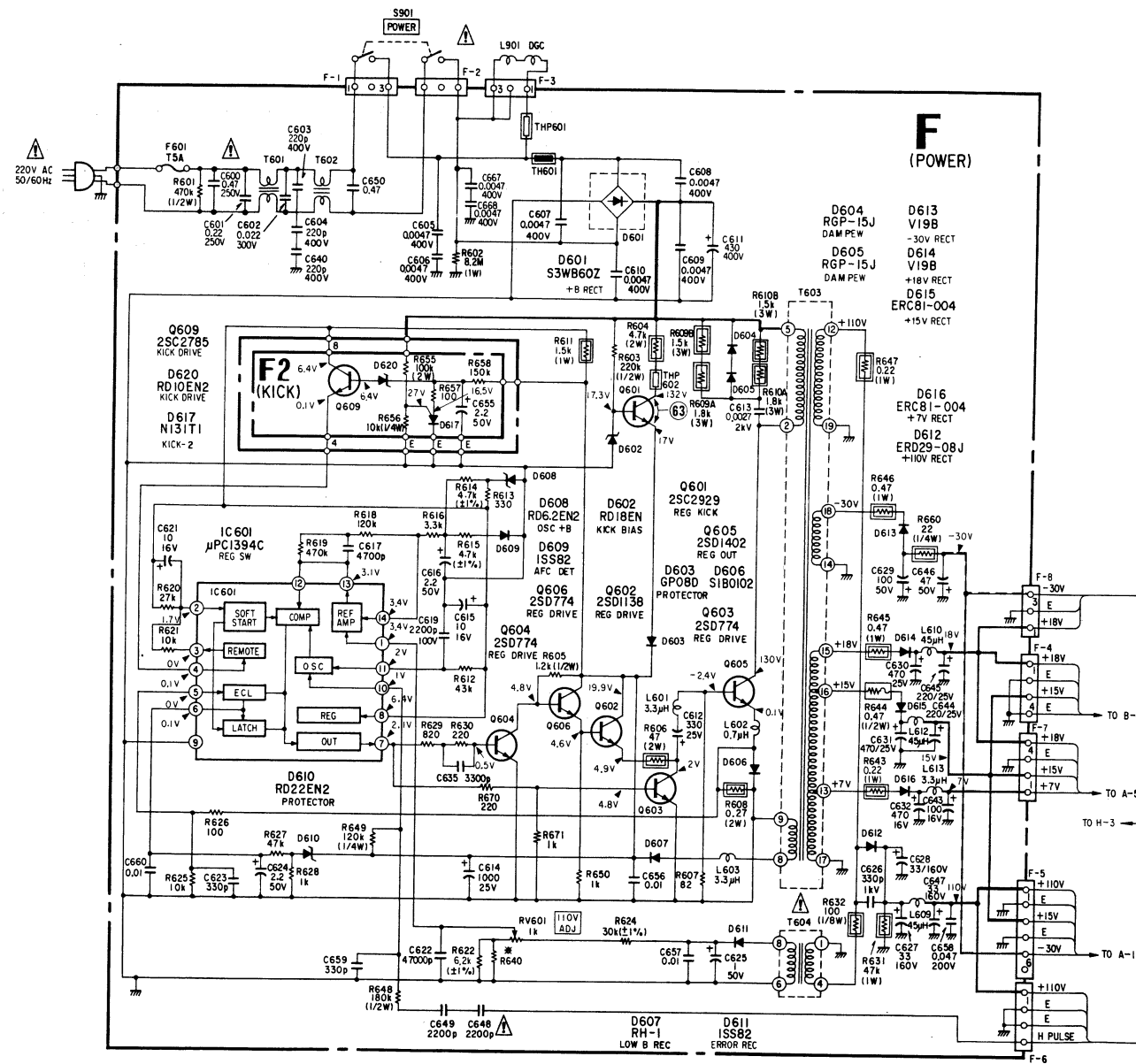


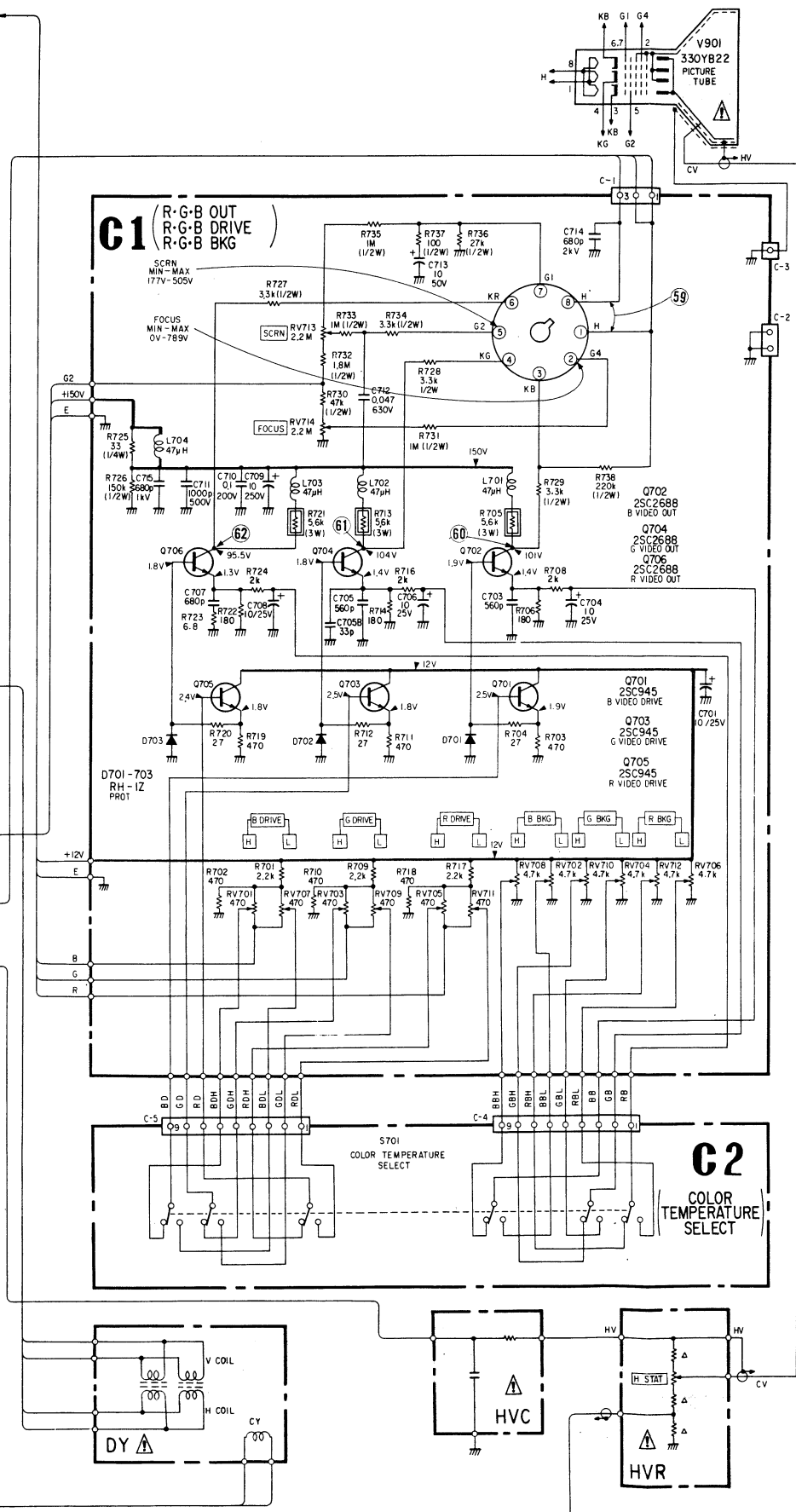
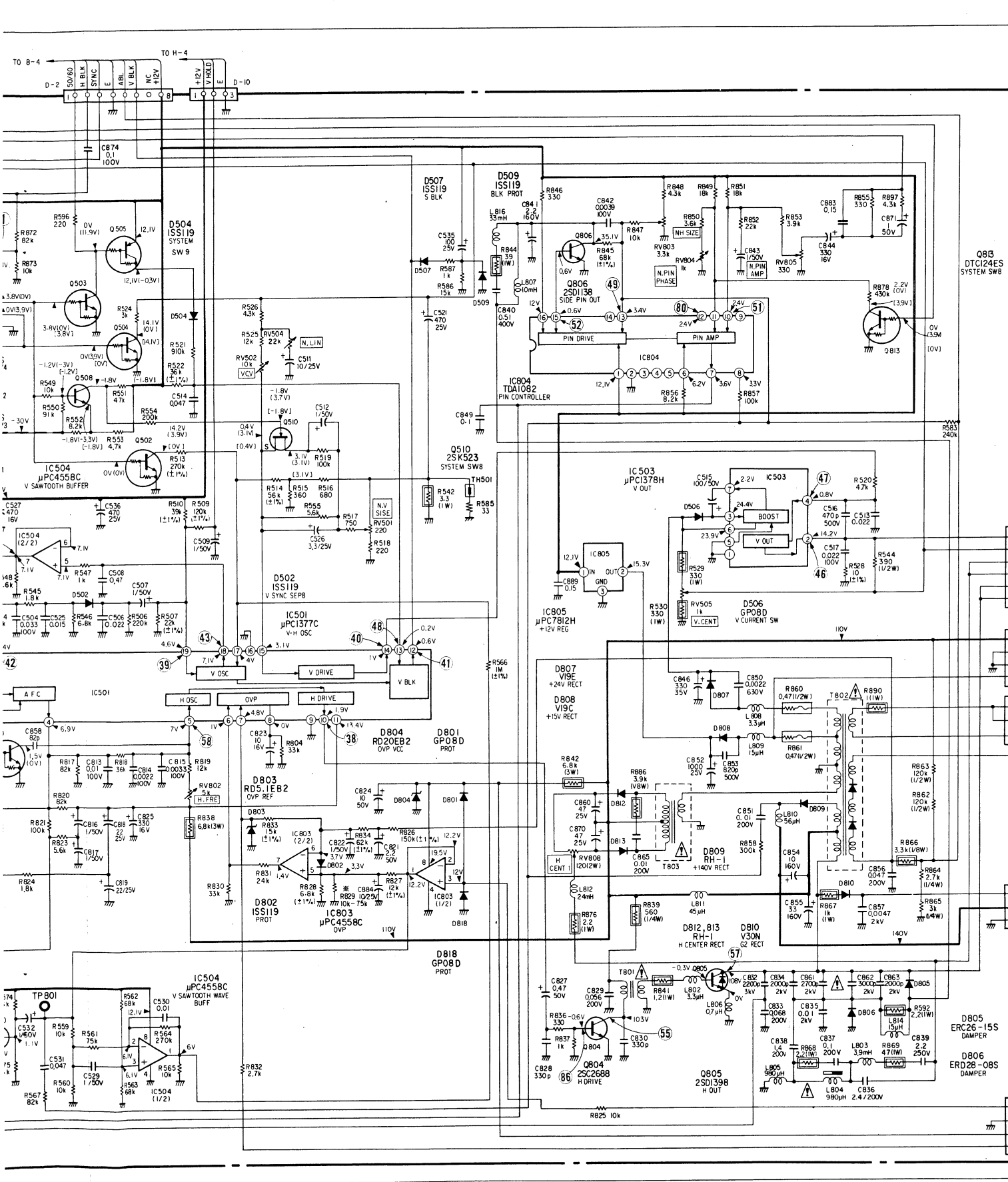










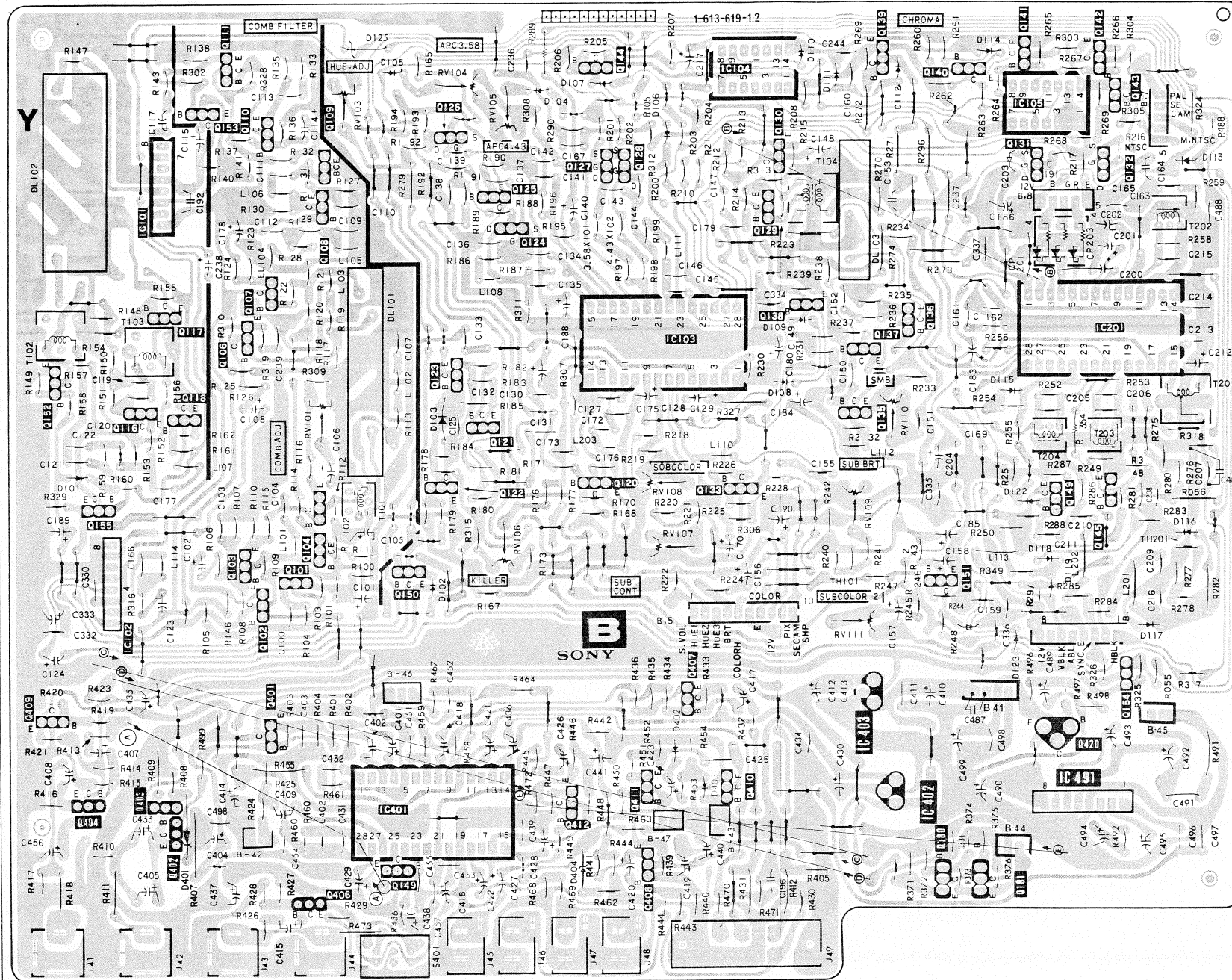


#### 4-5. PRINTED WIRING BOARDS — Conductor Side —

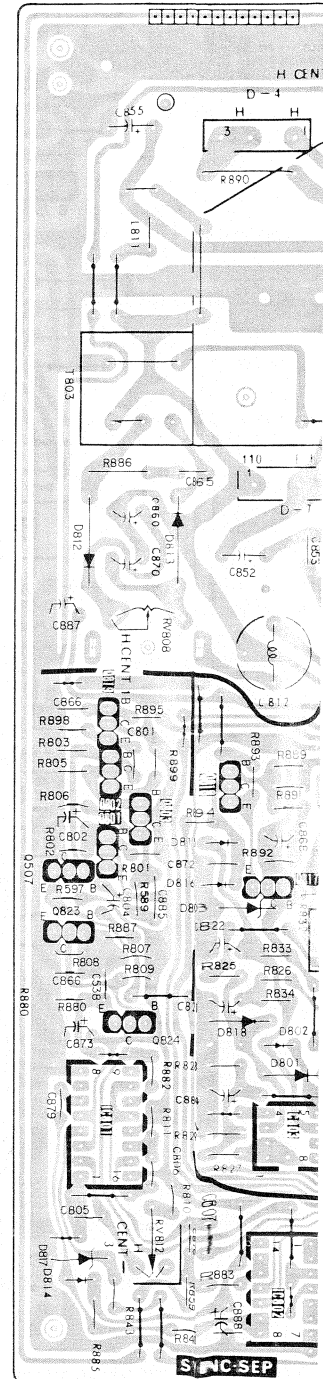
**B** [SYSTEM SW, AUDIO OUT, SELECT SW  
[Y AMP, RGB MATRIX, SECAM, PAL, NTSC]

- B Board -

— D Board —

[illegible]

| Q , IC    | D                  | ADJ        |
|-----------|--------------------|------------|
| 757       | 753<br>754         |            |
| 785       | 809 805<br>806     | 809        |
|           | 810                | 75         |
| 755 754   |                    |            |
| 753       |                    |            |
| 752       | 751<br>752         |            |
| IC503     | 813                | 75         |
|           | 812 808 807<br>506 | 75         |
| IC804     |                    |            |
| IC805 751 |                    | 808 80     |
| 819 812   |                    | 505        |
| 806       |                    |            |
| 818       |                    |            |
| 802       | 804                |            |
| 803       |                    | 803        |
| 801       |                    | 80         |
| 507       | 815                |            |
| 817       | 816                |            |
|           | 803                |            |
| 823 820   |                    |            |
| 816       |                    | 504        |
| 822 IC504 |                    |            |
| 824       | 818                | 506        |
| 760       | 802                | 507        |
| 821       | 801                | 502<br>501 |
| IC803     |                    |            |
| IC501     |                    | 802        |
|           | 502                |            |
|           | 509                |            |
| 811       | 507                |            |





**D** [ SYNC SEP, V.H OSC, V.H OUT,  
PIN CORRECT, SYSTEM SELECTOR ]

A

B

C

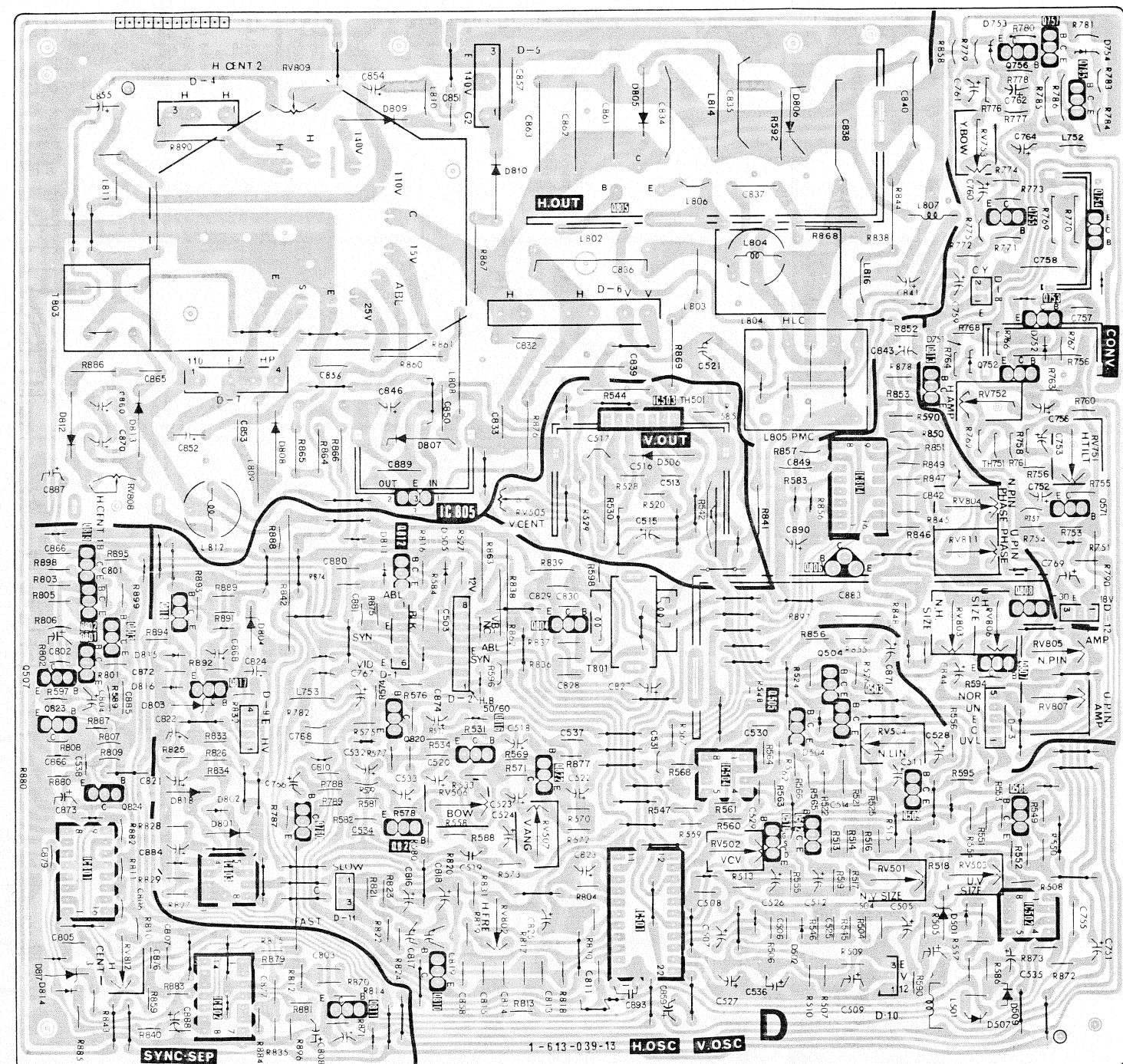
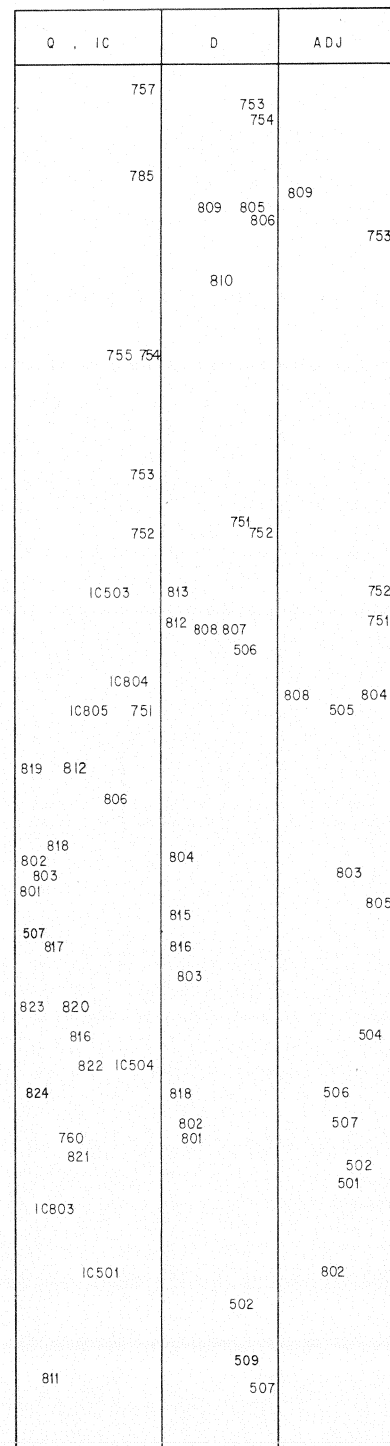
D

3

7

## G

H

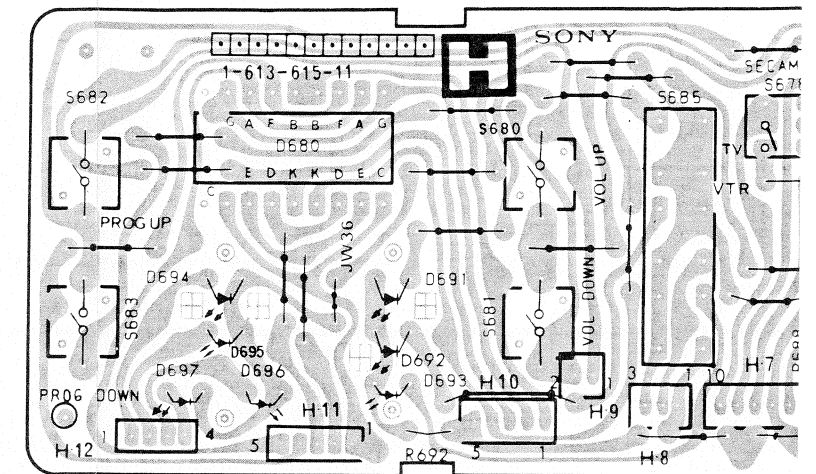




[ $\mu$ -CON, MEMORY, BAND SW,  
SIF, VIF, SYNC DET, VIDEO DRIVE]

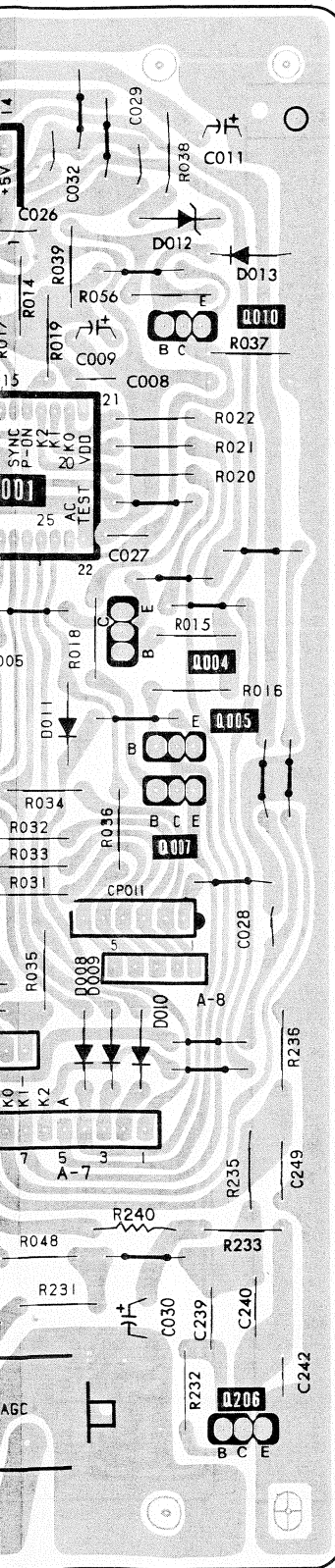
[CUST

- H Board -

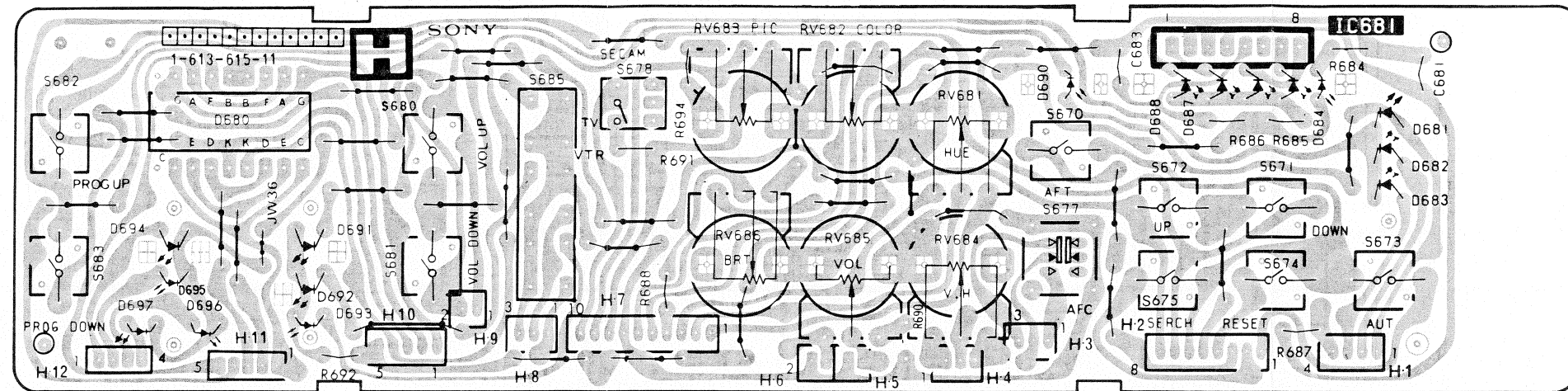


| Q, IC       | D                     | ADJ   |
|-------------|-----------------------|-------|
|             | 002                   |       |
| 205 IC002   |                       |       |
| IC005 002   |                       |       |
| IC004       | 001 012               |       |
| 006         | 013                   |       |
| 010         |                       |       |
| 204         |                       |       |
| IC202 IC001 |                       | RV201 |
| 203         |                       |       |
| 001 004     | 005                   |       |
| 009         |                       |       |
| 008         | 011                   |       |
| 005         |                       |       |
| 007         |                       |       |
| 202         | 007<br>003 004<br>006 |       |
| 011         |                       |       |
| IC201       | 010<br>008 009        |       |
| 003         |                       |       |
| IC003       |                       |       |
| 201 206     |                       |       |

— H Board —



| Q , IC      | D                     | ADJ   |
|-------------|-----------------------|-------|
|             | 002                   |       |
| 205 IC002   |                       |       |
| IC005 002   |                       |       |
| IC004       | 012                   |       |
|             | 001                   |       |
| 006         | 013                   |       |
| 010         |                       |       |
| 204         |                       |       |
| IC202 IC001 |                       |       |
| 203         |                       | RV201 |
| 001 004     | 005                   |       |
| 009         |                       |       |
| 008         | 011                   |       |
| 005         |                       |       |
| 007         |                       |       |
| 202         | 007<br>003 004<br>006 |       |
| 011         |                       |       |
| IC201       | 010<br>008 009        |       |
| 003         |                       |       |
| IC003       |                       |       |
| 201         |                       |       |
| 206         |                       |       |
| Q , IC      | D                     | ADJ   |

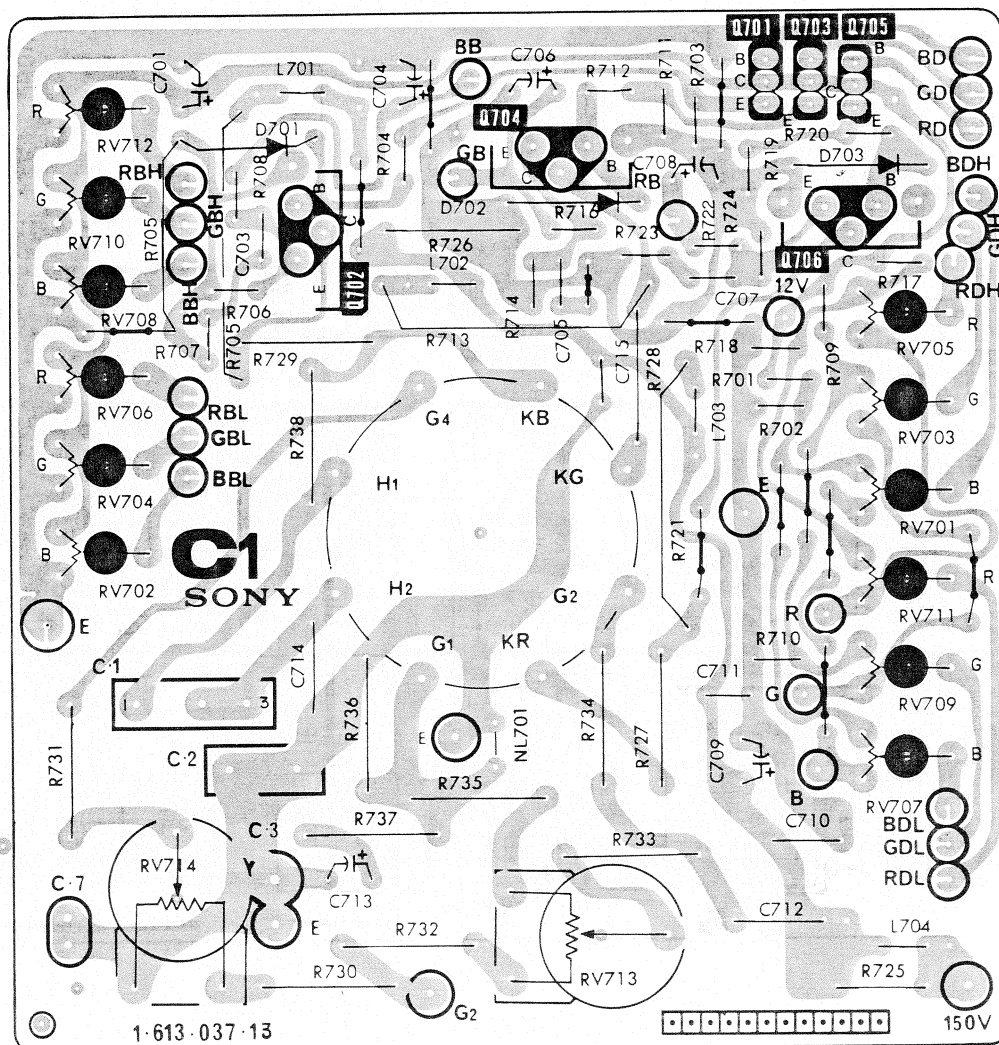




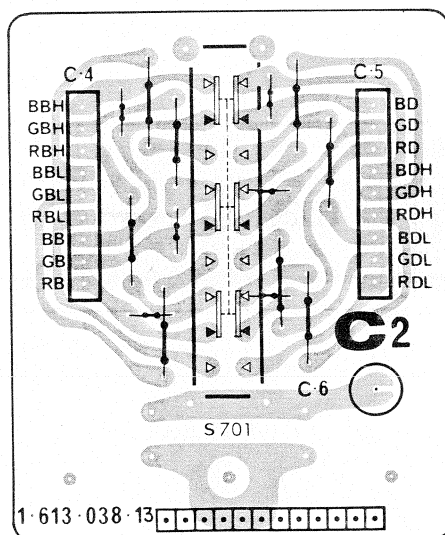
**C1**R.G.B OUT,  
R.G.B DRIVE,  
R.G.B BKG**C2**

[COLOR TEMPERATURE SELECT]

— C1 Board —

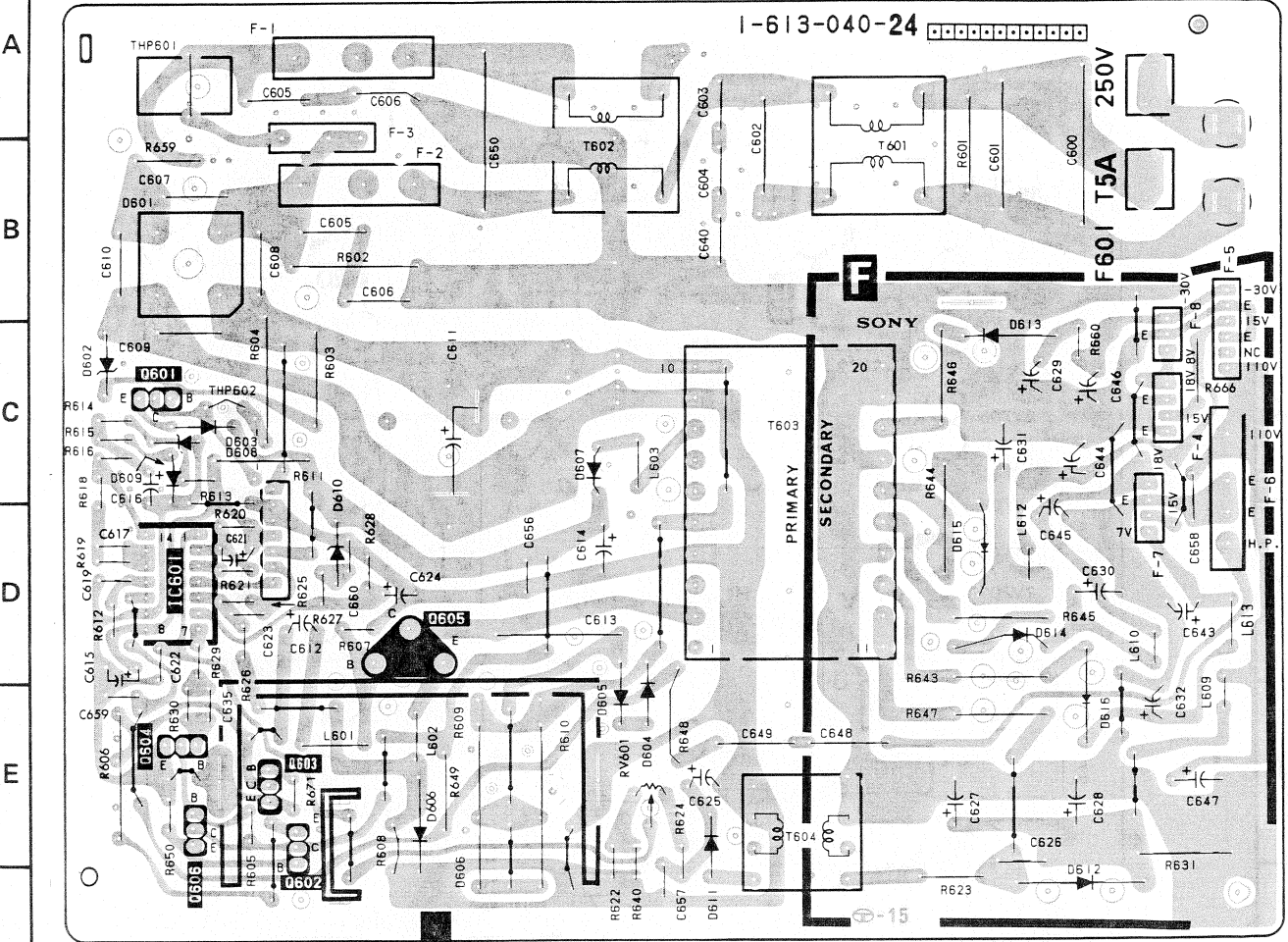


— C2 Board —

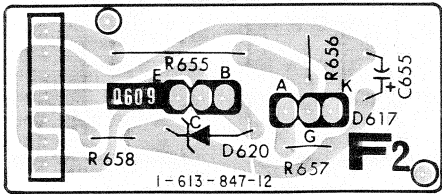


|   |                |   |    |        |   |   |   |   |  |  |  |
|---|----------------|---|----|--------|---|---|---|---|--|--|--|
| F | [POWER SUPPLY] |   | F2 | [KICK] |   |   |   |   |  |  |  |
|   | 1              | 2 |    | 3      | 4 | 5 | 6 | 7 |  |  |  |

— F Board —



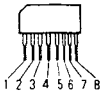
— F2 Board —



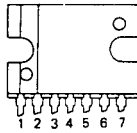


## 4-6. SEMICONDUCTORS

CX20061  
M51903L  
M54570L



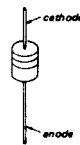
μPC1378H-L



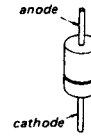
2SB740



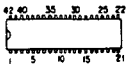
1SS119  
1SS148



RGP15J

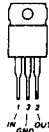


CX519-011P



(Top view)

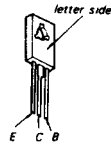
μPC7812H  
μPC78M05H  
μPC78M12H  
μPC78M18H



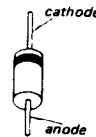
2SC2009



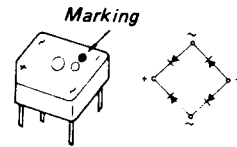
2SC2688  
2SD649  
2SD669  
2SD669A



1SS133  
1SS82  
1SS83  
ERC81-004  
ERD28-08  
RD10E-N2  
RD20E-B2  
RD22E-B2  
RD22E-B3  
RD4.3E-B2  
RD4.3E-N2  
RD5.1E-B2  
RD5.6E-B2



S3WB60Z

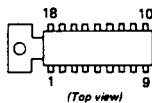


CX7916  
NJM4558D  
μPC4558C



(Top view)

2SA1015  
2SA733  
2SC945  
2SC1815



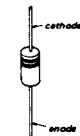
2SA1026



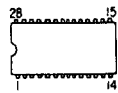
2SC2929  
2SD789  
2SD1134  
2SA1138



EQB01-10  
RH-1A  
RH-1Z  
SIB01-02

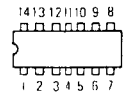


CX884  
μPC1364C  
μPC1365C



(Top view)

M58653P  
TC4023BP  
TC4024BP  
μPC1382C  
μPC1394C  
μPD4024BC



(Top view)

2SA1048GR  
2SA1115  
2SC2458  
2SC2603  
DTA124ES  
DTC124ES



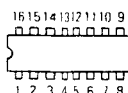
2SD1398



ERC26-15S



TA7607AP  
TDA1082



(Top view)

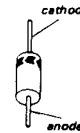
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2SC2785



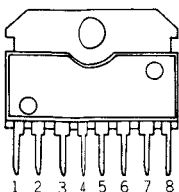
2SK105A



ERD29-08J



μPC1241N



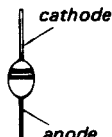
2SB734  
2SD774



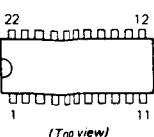
2SK523



GH3F  
U05G



μPC1377C

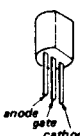


(Top view)

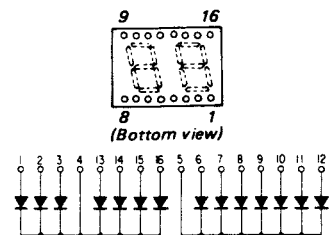
10E2  
ERA81-004  
ERB12-02RK  
EQA01-10S



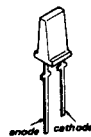
N13T1



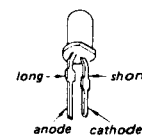
SL1222



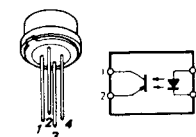
SY4320



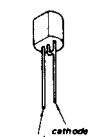
TLG123  
TLR123  
TLY123



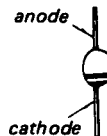
TLR320



μPC574J



V19B  
V19C  
V19E  
V30N



SECTION 5  
EXPLODED VIEWS

NOTE:

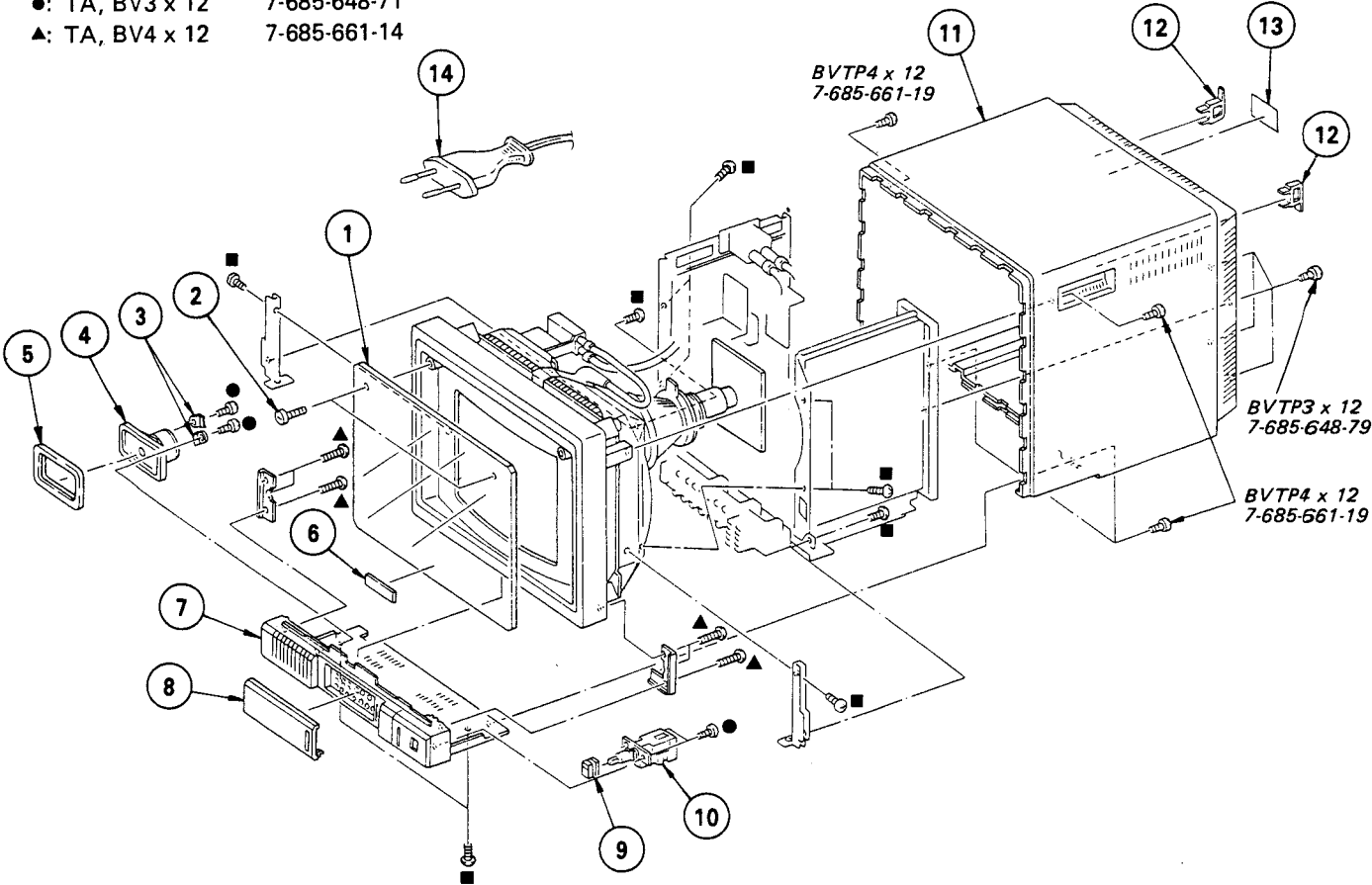
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

5-1. CABINET

- : TA, BV3 x 8      7-685-646-71
- : TA, BV3 x 12    7-685-648-71
- ▲: TA, BV4 x 12    7-685-661-14



| No. | Part No.      | Description               | Remark | No. | Part No.       | Description         | Remark |
|-----|---------------|---------------------------|--------|-----|----------------|---------------------|--------|
| 1   | 4-364-717-00  | FILTER                    |        | 8   | X-4364-704-4   | DOOR ASSY           |        |
| 2   | 4-336-851-51  | SCREW, ORNAMENTAL         |        | 9   | 4-364-710-00   | BUTTON, POWER       |        |
| 3   | *4-321-611-00 | CLAW, RETAINING, SPEAKER  |        | 10  | ▲ 1-554-967-11 | SWITCH, PUSH        |        |
| 4   | 1-503-109-00  | SPEAKER                   |        | 11  | X-4365-404-2   | CABINET ASSY        | 12     |
| 5   | *4-364-741-00 | CUSHION, SPEAKER          |        | 12  | 4-316-003-00   | HOLDER, CORD        |        |
| 6   | *X-3701-079-0 | EMBLEM (SMALL) ASSY, SONY |        | 13  | *4-364-773-01  | LABEL, MODEL NUMBER |        |
| 7   | X-4365-403-3  | PANEL ASSY, CONTROL       |        | 14  | ▲ 1-558-158-11 | CORD, POWER         |        |
|     |               |                           | 8      |     |                |                     |        |

# SECTION 6

## ELECTRICAL PARTS LIST

**B**

## NOTE:

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

• Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS  
• MF :  $\mu$ F, PF :  $\mu$ F

RESISTORS  
• All resistors are in ohms  
• F : nonflammable

COILS  
• MMH : mH, UH :  $\mu$ H

| Ref.No. | Part No.      | Description                   | Remark         | Ref.No. | Part No.     | Description | Remark       |
|---------|---------------|-------------------------------|----------------|---------|--------------|-------------|--------------|
|         | *A-1135-333-A | B BOARD, COMPLETE<br>*****    |                | C138    | 1-101-004-00 | CERAMIC     | 0.01MF 50V   |
|         | 1-536-782-00  | TERMINAL BOARD, INPUT/OUTPUT  |                | C139    | 1-108-579-00 | MYLAR       | 0.01MF 50V   |
|         | CONNECTOR     |                               |                | C140    | 1-123-381-00 | ELECT       | 2.2MF 50V    |
| B1      | *1-508-784-00 | 1P PLUG                       |                | C141    | 1-161-025-00 | CERAMIC     | 0.1MF 25V    |
| B4      | *1-560-128-00 | PLUG, CONNECTOR (2.5MM PITCH) |                | C142    | 1-161-025-00 | CERAMIC     | 0.1MF 10V    |
| B5      | *1-560-224-00 | PLUG, CONNECTOR (2.5MM) 10P   |                | C143    | 1-101-880-00 | CERAMIC     | 47PF 50V     |
| B7      | *1-560-124-00 | PLUG, CONNECTOR (2.5MM) 4P    |                | C144    | 1-101-880-00 | CERAMIC     | 47PF 50V     |
| B8      | *1-560-125-00 | PLUG, CONNECTOR (2.5MM) 5P    |                | C145    | 1-102-934-00 | CERAMIC     | 1PF 50V      |
| B41     | *1-560-124-00 | PLUG, CONNECTOR (2.5MM PITCH) |                | C146    | 1-102-963-00 | CERAMIC     | 33PF 50V     |
| B42     | *1-560-290-00 | PLUG, CONNECTOR (2.5MM PITCH) |                | C147    | 1-101-004-00 | CERAMIC     | 0.01MF 50V   |
| B43     | *1-560-290-00 | PLUG, CONNECTOR (2.5MM PITCH) |                | C148    | 1-123-329-51 | ELECT       | 10MF 20V     |
| B44     | *1-560-290-00 | PLUG, CONNECTOR (2.5MM PITCH) |                | C149    | 1-101-004-00 | CERAMIC     | 0.01MF 50V   |
| B45     | *1-560-290-00 | PLUG, CONNECTOR (2.5MM PITCH) |                | C150    | 1-101-004-00 | CERAMIC     | 0.01MF 50V   |
| B46     | *1-560-123-00 | PLUG, CONNECTOR (2.5MM) 3P    |                | C151    | 1-101-004-00 | CERAMIC     | 0.01MF 50V   |
| B47     | *1-560-290-00 | PLUG, CONNECTOR (2.5MM PITCH) |                | C152    | 1-101-004-00 | CERAMIC     | 0.01MF 50V   |
|         | CAPACITOR     |                               |                | C153    | 1-106-204-00 | MYLAR       | 0.022MF 10V  |
| C100    | 1-101-361-00  | CERAMIC                       | 150PF 5% 50V   | C155    | 1-102-946-00 | CERAMIC     | 9PF 50V      |
| C102    | 1-123-332-00  | ELECT                         | 47MF 20% 25V   | C156    | 1-123-330-00 | ELECT       | 22MF 16V     |
| C103    | 1-102-961-00  | CERAMIC                       | 27PF 5% 50V    | C157    | 1-123-380-00 | ELECT       | 1MF 50V      |
| C104    | 1-102-973-00  | CERAMIC                       | 100PF 5% 50V   | C158    | 1-123-382-00 | ELECT       | 3.3MF 20V    |
| C105    | 1-123-356-00  | ELECT                         | 10MF 20% 16V   | C159    | 1-124-049-00 | ELECT       | 0.47MF 20V   |
| C106    | 1-123-329-51  | ELECT                         | 10MF 20% 25V   | C160    | 1-102-115-00 | CERAMIC     | 560PF 10V    |
| C107    | 1-102-978-00  | CERAMIC                       | 220PF 5% 50V   | C161    | 1-102-971-00 | CERAMIC     | 82PF 50V     |
| C108    | 1-123-356-00  | ELECT                         | 10MF 20% 16V   | C162    | 1-101-361-00 | CERAMIC     | 150PF 50V    |
| C109    | 1-102-959-00  | CERAMIC                       | 22PF 5% 50V    | C163    | 1-102-971-00 | CERAMIC     | 82PF 50V     |
| C110    | 1-102-961-00  | CERAMIC                       | 27PF 5% 50V    | C164    | 1-121-257-00 | ELECT       | 4.7MF 16V    |
| C111    | 1-101-888-00  | CERAMIC                       | 68PF 5% 50V    | C165    | 1-101-361-00 | CERAMIC     | 150PF 50V    |
| C112    | 1-102-971-00  | CERAMIC                       | 82PF 5% 50V    | C166    | 1-101-888-00 | CERAMIC     | 68PF 50V     |
| C113    | 1-102-978-00  | CERAMIC                       | 220PF 5% 50V   | C167    | 1-101-006-21 | CERAMIC     | 0.047MF 50V  |
| C115    | 1-123-356-00  | ELECT                         | 10MF 20% 16V   | C169    | 1-106-220-00 | MYLAR       | 0.1MF 10V    |
| C117    | 1-123-329-51  | ELECT                         | 10MF 20% 25V   | C170    | 1-123-380-00 | ELECT       | 1MF 20V      |
| C119    | 1-102-944-00  | CERAMIC                       | 7PF 0.5PF 50V  | C171    | 1-101-004-00 | CERAMIC     | 0.01MF 50V   |
| C120    | 1-102-944-00  | CERAMIC                       | 7PF 0.5PF 50V  | C172    | 1-101-888-00 | CERAMIC     | 68PF 50V     |
| C121    | 1-102-944-00  | CERAMIC                       | 7PF 0.5PF 50V  | C173    | 1-108-579-00 | MYLAR       | 0.01MF 50V   |
| C122    | 1-102-944-00  | CERAMIC                       | 7PF 0.5PF 50V  | C175    | 1-102-971-00 | CERAMIC     | 82PF 50V     |
| C123    | 1-123-380-00  | ELECT                         | 1MF 20% 50V    | C176    | 1-102-951-00 | CERAMIC     | 15PF 50V     |
| C124    | 1-123-329-51  | ELECT                         | 10MF 20% 25V   | C177    | 1-102-963-00 | CERAMIC     | 33PF 50V     |
| C125    | 1-102-824-00  | CERAMIC                       | 470PF 5% 50V   | C178    | 1-123-329-51 | ELECT       | 10MF 20V     |
| C127    | 1-101-004-00  | CERAMIC                       | 0.01MF 50V     | C179    | 1-101-004-00 | CERAMIC     | 0.01MF 50V   |
| C128    | 1-123-380-00  | ELECT                         | 1MF 20% 50V    | C180    | 1-123-324-00 | ELECT       | 1000MF 20V   |
| C129    | 1-123-379-00  | ELECT                         | 0.47MF 20% 50V | C183    | 1-123-608-00 | ELECT       | 0.22MF 20V   |
| C130    | 1-123-380-00  | ELECT                         | 1MF 20% 50V    | C184    | 1-123-379-00 | ELECT       | 0.47MF 20V   |
| C131    | 1-106-220-00  | MYLAR                         | 0.1MF 10V      | C186    | 1-123-324-00 | ELECT       | 1000MF 20V   |
| C132    | 1-106-220-00  | MYLAR                         | 0.1MF 10V      | C188    | 1-123-329-51 | ELECT       | 10MF 20V     |
| C133    | 1-123-332-00  | ELECT                         | 47MF 16V       | C189    | 1-123-329-51 | ELECT       | 10MF 20V     |
| C134    | 1-102-963-00  | CERAMIC                       | 33PF 5% 50V    | C190    | 1-123-329-51 | ELECT       | 10MF 20V     |
| C135    | 1-102-978-00  | CERAMIC                       | 220PF 5% 50V   | C191    | 1-101-004-00 | CERAMIC     | 0.01MF 50V   |
| C136    | 1-101-880-00  | CERAMIC                       | 47PF 5% 50V    | C192    | 1-101-004-00 | CERAMIC     | 0.01MF 50V   |
| C137    | 1-102-959-00  | CERAMIC                       | 22PF 5% 50V    | C196    | 1-108-678-11 | MYLAR       | 0.001MF 100V |
|         |               |                               |                | C197    | 1-108-678-11 | MYLAR       | 0.001MF 100V |
|         |               |                               |                | C198    | 1-102-824-00 | CERAMIC     | 470PF 5% 50V |
|         |               |                               |                | C199    | 1-102-820-00 | CERAMIC     | 330PF 5% 50V |
|         |               |                               |                | C200    | 1-123-607-00 | ELECT       | 0.1MF 20V    |

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| Ref.No. | Part No.     | Description     | Remark          | Ref.No. | Part No.     | Description | Remark           |
|---------|--------------|-----------------|-----------------|---------|--------------|-------------|------------------|
| C201    | 1-123-607-00 | ELECT           | 0.1MF 20% 50V   | C427    | 1-123-380-00 | ELECT       | 1MF 20% 50V      |
| C202    | 1-123-607-00 | ELECT           | 0.1MF 20% 50V   | C428    | 1-123-329-51 | ELECT       | 10MF 20% 25V     |
| C203    | 1-121-257-00 | ELECT           | 4.7MF 16V       | C429    | 1-123-356-00 | ELECT       | 10MF 20% 50V     |
| C204    | 1-123-381-00 | ELECT           | 2.2MF 20% 50V   | C430    | 1-123-333-00 | ELECT       | 100MF 20% 25V    |
| C205    | 1-102-525-00 | CERAMIC         | 68PF 5% 50V     | C431    | 1-102-963-00 | CERAMIC     | 33PF 5% 50V      |
| C206    | 1-102-892-00 | CERAMIC         | 22PF 5% 50V     | C432    | 1-102-980-00 | CERAMIC     | 270PF 5% 50V     |
| C207    | 1-102-679-00 | CERAMIC         | 120PF 5% 50V    | C433    | 1-124-555-00 | ELECT       | 1000MF 20% 16V   |
| C208    | 1-101-880-00 | CERAMIC         | 47PF 5% 50V     | C434    | 1-101-004-00 | CERAMIC     | 0.01MF 50V       |
| C209    | 1-102-971-00 | CERAMIC         | 82PF 5% 50V     | C435    | 1-123-333-00 | ELECT       | 100MF 20% 25V    |
| C210    | 1-102-978-00 | CERAMIC         | 220PF 5% 50V    | C436    | 1-123-380-00 | ELECT       | 1MF 20% 50V      |
| C211    | 1-106-196-00 | MYLAR           | 0.01MF 10% 100V | C437    | 1-123-333-00 | ELECT       | 100MF 20% 25V    |
| C212    | 1-123-329-51 | ELECT           | 10MF 20% 25V    | C438    | 1-123-333-00 | ELECT       | 100MF 20% 25V    |
| C213    | 1-101-004-00 | CERAMIC         | 0.01MF 50V      | C439    | 1-102-978-00 | CERAMIC     | 220PF 5% 50V     |
| C214    | 1-108-579-00 | MYLAR           | 0.01MF 5% 50V   | C440    | 1-123-332-00 | ELECT       | 47MF 20% 25V     |
| C215    | 1-102-892-00 | CERAMIC         | 22PF 5% 50V     | C441    | 1-123-323-00 | ELECT       | 470MF 20% 16V    |
| C216    | 1-102-824-00 | CERAMIC         | 470PF 5% 50V    | C450    | 1-130-487-00 | MYLAR       | 0.022MF 5% 50V   |
| C217    | 1-123-329-51 | ELECT           | 10MF 20% 25V    | C451    | 1-101-004-00 | CERAMIC     | 0.01MF 50V       |
| C236    | 1-101-004-00 | CERAMIC         | 0.01MF 50V      | C452    | 1-101-004-00 | CERAMIC     | 0.01MF 50V       |
| C237    | 1-161-330-00 | CERAMIC         | 0.01MF 30% 25V  | C453    | 1-101-004-00 | CERAMIC     | 0.01MF 50V       |
| C239    | 1-101-004-00 | CERAMIC         | 0.01MF 50V      | C454    | 1-101-006-21 | CERAMIC     | 0.047MF 50V      |
| C244    | 1-101-004-00 | CERAMIC         | 0.01MF 50V      | C455    | 1-101-004-00 | CERAMIC     | 0.01MF 50V       |
| C330    | 1-101-004-00 | CERAMIC         | 0.01MF 50V      | C456    | 1-123-332-00 | ELECT       | 47MF 20% 25V     |
| C331    | 1-101-006-21 | CERAMIC         | 0.047MF 50V     | C488    | 1-102-824-00 | CERAMIC     | 470PF 5% 50V     |
| C332    | 1-101-004-00 | CERAMIC         | 0.01MF 50V      | C489    | 1-123-332-00 | ELECT       | 47MF 20% 25V     |
| C333    | 1-123-356-00 | ELECT           | 10MF 20% 16V    | C490    | 1-123-333-00 | ELECT       | 100MF 20% 25V    |
| C334    | 1-101-004-00 | CERAMIC         | 0.01MF 50V      | C491    | 1-106-220-00 | MYLAR       | 0.1MF 10% 100V   |
| C335    | 1-101-004-00 | CERAMIC         | 0.01MF 50V      | C492    | 1-123-323-00 | ELECT       | 470MF 20% 16V    |
| C336    | 1-101-004-00 | CERAMIC         | 0.01MF 50V      | C496    | 1-106-208-00 | MYLAR       | 0.033MF 10% 100V |
| C337    | 1-101-004-00 | CERAMIC         | 0.01MF 50V      | C497    | 1-101-006-21 | CERAMIC     | 0.047MF 50V      |
| C401    | 1-123-343-00 | ELECT           | 33MF 20% 25V    | C498    | 1-101-004-00 | CERAMIC     | 0.01MF 50V       |
| C402    | 1-123-343-00 | ELECT           | 33MF 20% 25V    | C499    | 1-123-333-00 | ELECT       | 100MF 20% 25V    |
| C403    | 1-102-947-00 | CERAMIC         | 10PF 5% 50V     |         |              |             |                  |
| C404    | 1-123-380-00 | ELECT           | 1MF 20% 50V     |         |              |             |                  |
| C405    | 1-124-555-00 | ELECT           | 1000MF 20% 16V  |         |              |             |                  |
| C407    | 1-123-343-00 | ELECT           | 33MF 20% 25V    |         |              |             |                  |
| C408    | 1-123-324-00 | ELECT           | 1000MF 20% 16V  |         |              |             |                  |
| C409    | 1-123-343-00 | ELECT           | 33MF 20% 25V    |         |              |             |                  |
| C410    | 1-123-333-00 | ELECT           | 100MF 20% 25V   |         |              |             |                  |
| C411    | 1-101-004-00 | CERAMIC         | 0.01MF 50V      |         |              |             |                  |
| C412    | 1-123-333-00 | ELECT           | 100MF 20% 25V   |         |              |             |                  |
| C413    | 1-101-004-00 | CERAMIC         | 0.01MF 50V      |         |              |             |                  |
| C414    | 1-123-333-00 | ELECT           | 100MF 20% 25V   |         |              |             |                  |
| C415    | 1-123-329-51 | ELECT           | 10MF 20% 25V    |         |              |             |                  |
| C416    | 1-123-332-00 | ELECT           | 47MF 20% 25V    |         |              |             |                  |
| C417    | 1-123-329-51 | ELECT           | 10MF 20% 25V    |         |              |             |                  |
| C418    | 1-123-332-00 | ELECT           | 47MF 20% 25V    |         |              |             |                  |
| C419    | 1-123-380-00 | ELECT           | 1MF 20% 50V     |         |              |             |                  |
| C420    | 1-123-380-00 | ELECT           | 1MF 20% 50V     |         |              |             |                  |
| C421    | 1-123-380-00 | ELECT           | 1MF 20% 50V     |         |              |             |                  |
| C422    | 1-123-380-00 | ELECT           | 1MF 20% 50V     |         |              |             |                  |
| C423    | 1-123-332-00 | ELECT           | 47MF 20% 25V    |         |              |             |                  |
| C425    | 1-106-224-00 | MYLAR           | 0.15MF 10% 100V |         |              |             |                  |
| C426    | 1-123-329-51 | ELECT           | 10MF 20% 25V    |         |              |             |                  |
| DIODE   |              |                 |                 |         |              |             |                  |
| D101    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |
| D102    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |
| D103    | 8-719-981-01 | DIODE ERA81-004 |                 |         |              |             |                  |
| D104    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |
| D105    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |
| D106    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |
| D107    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |
| D108    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |
| D109    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |
| D110    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |
| D111    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |
| D112    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |
| D113    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |
| D114    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |
| D115    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |
| D116    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |
| D117    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |
| D118    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |
| D119    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |
| D122    | 8-719-911-19 | DIODE 1SS119    |                 |         |              |             |                  |

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| Ref.No.           | Part No.            | Description           | Remark | Ref.No. | Part No.     | Description           | Remark |
|-------------------|---------------------|-----------------------|--------|---------|--------------|-----------------------|--------|
| D123              | 8-719-911-19        | DIODE 1SS119          |        | Q109    | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
| D125              | 8-719-911-19        | DIODE 1SS119          |        | Q110    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| D401              | 8-719-931-10        | DIODE EQ801-10        |        | Q111    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| D402              | 8-719-911-19        | DIODE 1SS119          |        | Q116    | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
| D403              | 8-719-911-19        | DIODE 1SS119          |        | Q117    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| D404              | 8-719-100-35        | DIODE RD5.6E-B2       |        | Q118    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| <u>DELAY LINE</u> |                     |                       |        | Q120    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| DL101             | 1-415-280-00        | DELAY LINE (1H)       |        | Q121    | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
| DL102             | 1-415-188-00        | DELAY LINE            |        | Q122    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| *4-364-755-01     | TAPE, SHIELD; DL102 |                       |        | Q123    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| DL103             | 1-415-122-31        | DELAY LINE, 1H (PAL)  |        | Q124    | 8-729-115-30 | TRANSISTOR 2SK105A-30 |        |
| <u>IC</u>         |                     |                       |        | Q125    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| IC101             | 8-752-006-10        | IC CX20061            |        | Q126    | 8-729-115-30 | TRANSISTOR 2SK105A-30 |        |
| IC102             | 8-752-006-10        | IC CX20061            |        | Q127    | 8-729-115-30 | TRANSISTOR 2SK105A-30 |        |
| IC103             | 8-759-113-65        | IC UPC1365C           |        | Q128    | 8-729-115-30 | TRANSISTOR 2SK105A-30 |        |
| IC104             | 8-759-240-24        | IC TC40248P           |        | Q129    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| IC105             | 8-759-240-23        | IC TC4023BP           |        | Q130    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| IC201             | 8-759-100-15        | IC UPC1364C           |        | Q131    | 8-729-115-30 | TRANSISTOR 2SK105A-30 |        |
| IC401             | 8-759-905-10        | IC CX884              |        | Q132    | 8-729-115-30 | TRANSISTOR 2SK105A-30 |        |
| IC402             | 8-759-170-18        | IC UPC78M18H          |        | Q133    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| IC403             | 8-759-170-12        | IC UPC78M12H          |        | Q135    | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
| IC491             | 8-759-101-77        | IC UPC1241H           |        | Q136    | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
| <u>COIL</u>       |                     |                       |        | Q137    | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
| L101              | 1-408-412-00        | MICRO INDUCTOR 18UH   |        | Q138    | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
| L102              | 1-408-412-00        | MICRO INDUCTOR 18UH   |        | Q139    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| L103              | 1-408-411-00        | MICRO INDUCTOR 15UH   |        | Q140    | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
| L104              | 1-408-414-00        | MICRO INDUCTOR 27UH   |        | Q141    | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
| L105              | 1-408-414-00        | MICRO INDUCTOR 27UH   |        | Q142    | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
| L106              | 1-408-409-00        | MICRO INDUCTOR 10UH   |        | Q143    | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
| L107              | 1-408-446-11        | MICRO INDUCTOR 22UH   |        | Q144    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| L108              | 1-408-416-00        | MICRO INDUCTOR 39UH   |        | Q145    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| L110              | 1-408-412-00        | MICRO INDUCTOR 18UH   |        | Q149    | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
| L111              | 1-408-406-00        | MICRO INDUCTOR 5.6UH  |        | Q150    | 8-729-103-43 | TRANSISTOR 2SB734     |        |
| L112              | 1-408-408-00        | MICRO INDUCTOR 8.2UH  |        | Q151    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| L113              | 1-408-226-00        | MICRO INDUCTOR 82UH   |        | Q152    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| L114              | 1-408-419-00        | MICRO INDUCTOR 68UH   |        | Q153    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| L201              | 1-408-247-00        | MICRO INDUCTOR 33MMH  |        | Q154    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| L202              | 1-408-163-00        | MICRO INDUCTOR 5.6MMH |        | Q155    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| L203              | 1-408-414-00        | MICRO INDUCTOR 27UH   |        | Q180    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| L402              | 1-408-446-11        | MICRO INDUCTOR 22UH   |        | Q181    | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
| <u>TRANSISTOR</u> |                     |                       |        | Q401    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| Q101              | 8-729-245-83        | TRANSISTOR 2SC2458    |        | Q402    | 8-729-177-43 | TRANSISTOR 2SD774     |        |
| Q102              | 8-729-245-83        | TRANSISTOR 2SC2458    |        | Q403    | 8-729-177-43 | TRANSISTOR 2SD774     |        |
| Q103              | 8-729-245-83        | TRANSISTOR 2SC2458    |        | Q404    | 8-729-177-43 | TRANSISTOR 2SD774     |        |
| Q104              | 8-729-245-83        | TRANSISTOR 2SC2458    |        | Q406    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| Q105              | 8-729-245-83        | TRANSISTOR 2SC2458    |        | Q407    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| Q106              | 8-729-245-83        | TRANSISTOR 2SC2458    |        | Q408    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
| Q107              | 8-729-245-83        | TRANSISTOR 2SC2458    |        | Q409    | 8-729-204-83 | TRANSISTOR 2SA1048GR  |        |
| Q108              | 8-729-245-83        | TRANSISTOR 2SC2458    |        | Q410    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
|                   |                     |                       |        | Q411    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
|                   |                     |                       |        | Q412    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
|                   |                     |                       |        | Q419    | 8-729-245-83 | TRANSISTOR 2SC2458    |        |
|                   |                     |                       |        | Q420    | 8-729-313-82 | TRANSISTOR 2SD1138    |        |



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| Ref.No.         | Part No.     | Description | Remark       | Ref.No. | Part No.     | Description | Remark       |
|-----------------|--------------|-------------|--------------|---------|--------------|-------------|--------------|
| <u>RESISTOR</u> |              |             |              |         |              |             |              |
| R055            | 1-247-877-00 | CARBON      | 82K 5% 1/6W  | R153    | 1-247-843-00 | CARBON      | 3.3K 5% 1/6W |
| R056            | 1-247-151-00 | CARBON      | 6.8K 5% 1/4W | R154    | 1-247-863-00 | CARBON      | 22K 5% 1/6W  |
| R100            | 1-247-853-00 | CARBON      | 8.2K 5% 1/6W | R155    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  |
| R101            | 1-247-869-00 | CARBON      | 39K 5% 1/6W  | R156    | 1-247-867-00 | CARBON      | 33K 5% 1/6W  |
| R102            | 1-247-815-00 | CARBON      | 220 5% 1/6W  | R157    | 1-247-867-00 | CARBON      | 33K 5% 1/6W  |
| R103            | 1-247-833-00 | CARBON      | 1.2K 5% 1/6W | R158    | 1-247-875-00 | CARBON      | 68K 5% 1/6W  |
| R104            | 1-247-819-00 | CARBON      | 330 5% 1/6W  | R159    | 1-247-827-00 | CARBON      | 680 5% 1/6W  |
| R105            | 1-247-827-00 | CARBON      | 680 5% 1/6W  | R160    | 1-247-869-00 | CARBON      | 39K 5% 1/6W  |
| R106            | 1-247-843-00 | CARBON      | 3.3K 5% 1/6W | R161    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  |
| R107            | 1-247-849-00 | CARBON      | 5.6K 5% 1/6W | R162    | 1-249-437-11 | CARBON      | 47K 5% 1/6W  |
| R108            | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R165    | 1-247-903-00 | CARBON      | 1M 5% 1/6W   |
| R109            | 1-247-823-00 | CARBON      | 470 5% 1/6W  | R167    | 1-249-419-11 | CARBON      | 1.5K 5% 1/6W |
| R110            | 1-247-823-00 | CARBON      | 470 5% 1/6W  | R168    | 1-247-867-00 | CARBON      | 33K 5% 1/6W  |
| R111            | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R170    | 1-247-859-00 | CARBON      | 15K 5% 1/6W  |
| R112            | 1-247-827-00 | CARBON      | 680 5% 1/6W  | R171    | 1-247-879-00 | CARBON      | 100K 5% 1/6W |
| R113            | 1-247-817-00 | CARBON      | 270 5% 1/6W  | R173    | 1-247-847-00 | CARBON      | 4.7K 5% 1/6W |
| R114            | 1-247-827-00 | CARBON      | 680 5% 1/6W  | R176    | 1-247-887-00 | CARBON      | 220K 5% 1/6W |
| R115            | 1-249-419-11 | CARBON      | 1.5K 5% 1/6W | R177    | 1-247-879-00 | CARBON      | 100K 5% 1/6W |
| R116            | 1-247-803-00 | CARBON      | 68 5% 1/6W   | R178    | 1-247-883-00 | CARBON      | 150K 5% 1/6W |
| R117            | 1-247-827-00 | CARBON      | 680 5% 1/6W  | R179    | 1-247-875-00 | CARBON      | 68K 5% 1/6W  |
| R118            | 1-247-827-00 | CARBON      | 680 5% 1/6W  | R180    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   |
| R119            | 1-247-807-00 | CARBON      | 100 5% 1/6W  | R181    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  |
| R120            | 1-247-827-00 | CARBON      | 680 5% 1/6W  | R182    | 1-249-437-11 | CARBON      | 47K 5% 1/6W  |
| R121            | 1-247-827-00 | CARBON      | 680 5% 1/6W  | R183    | 1-247-843-00 | CARBON      | 3.3K 5% 1/6W |
| R122            | 1-247-807-00 | CARBON      | 100 5% 1/6W  | R184    | 1-247-833-00 | CARBON      | 1.2K 5% 1/6W |
| R123            | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R185    | 1-247-877-00 | CARBON      | 82K 5% 1/6W  |
| R124            | 1-247-823-00 | CARBON      | 470 5% 1/6W  | R186    | 1-247-823-00 | CARBON      | 470 5% 1/6W  |
| R125            | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R187    | 1-249-434-11 | CARBON      | 27K 5% 1/6W  |
| R126            | 1-247-807-00 | CARBON      | 100 5% 1/6W  | R188    | 1-247-867-00 | CARBON      | 33K 5% 1/6W  |
| R127            | 1-247-827-00 | CARBON      | 680 5% 1/6W  | R189    | 1-247-875-00 | CARBON      | 68K 5% 1/6W  |
| R128            | 1-247-814-00 | CARBON      | 200 5% 1/6W  | R190    | 1-247-867-00 | CARBON      | 33K 5% 1/6W  |
| R129            | 1-249-419-11 | CARBON      | 1.5K 5% 1/6W | R191    | 1-249-437-11 | CARBON      | 47K 5% 1/6W  |
| R130            | 1-247-827-00 | CARBON      | 680 5% 1/6W  | R192    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W |
| R131            | 1-247-823-00 | CARBON      | 470 5% 1/6W  | R193    | 1-247-845-00 | CARBON      | 3.9K 5% 1/6W |
| R132            | 1-247-837-00 | CARBON      | 1.8K 5% 1/6W | R194    | 1-247-859-00 | CARBON      | 15K 5% 1/6W  |
| R133            | 1-247-799-00 | CARBON      | 47 5% 1/6W   | R195    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W |
| R135            | 1-247-816-00 | CARBON      | 240 5% 1/6W  | R196    | 1-249-434-11 | CARBON      | 27K 5% 1/6W  |
| R136            | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R197    | 1-247-827-00 | CARBON      | 680 5% 1/6W  |
| R137            | 1-247-861-00 | CARBON      | 18K 5% 1/6W  | R198    | 1-247-827-00 | CARBON      | 680 5% 1/6W  |
| R138            | 1-247-843-00 | CARBON      | 3.3K 5% 1/6W | R199    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   |
| R140            | 1-247-863-00 | CARBON      | 22K 5% 1/6W  | R200    | 1-247-879-00 | CARBON      | 100K 5% 1/6W |
| R141            | 1-247-863-00 | CARBON      | 22K 5% 1/6W  | R201    | 1-247-903-00 | CARBON      | 1M 5% 1/6W   |
| R143            | 1-247-807-00 | CARBON      | 100 5% 1/6W  | R202    | 1-247-903-00 | CARBON      | 1M 5% 1/6W   |
| R145            | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R203    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  |
| R146            | 1-247-803-00 | CARBON      | 68 5% 1/6W   | R204    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  |
| R147            | 1-249-419-11 | CARBON      | 1.5K 5% 1/6W | R205    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  |
| R148            | 1-249-419-11 | CARBON      | 1.5K 5% 1/6W | R206    | 1-247-875-00 | CARBON      | 68K 5% 1/6W  |
| R149            | 1-247-863-00 | CARBON      | 22K 5% 1/6W  | R207    | 1-247-815-00 | CARBON      | 220 5% 1/6W  |
| R150            | 1-247-829-00 | CARBON      | 820 5% 1/6W  | R208    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  |
| R151            | 1-247-823-00 | CARBON      | 470 5% 1/6W  | R209    | 1-247-867-00 | CARBON      | 33K 5% 1/6W  |
| R152            | 1-247-829-00 | CARBON      | 820 5% 1/6W  | R210    | 1-247-815-00 | CARBON      | 220 5% 1/6W  |
|                 |              |             |              | R211    | 1-247-815-00 | CARBON      | 220 5% 1/6W  |
|                 |              |             |              | R212    | 1-247-845-00 | CARBON      | 3.9K 5% 1/6W |

| Ref.No. | Part No.     | Description | Remark       | Ref.No. | Part No.     | Description | Remark         |
|---------|--------------|-------------|--------------|---------|--------------|-------------|----------------|
| R213    | 1-247-815-00 | CARBON      | 220 5% 1/6W  | R269    | 1-249-429-11 | CARBON      | 10K 5% 1/6W    |
| R214    | 1-247-815-00 | CARBON      | 220 5% 1/6W  | R270    | 1-247-827-00 | CARBON      | 680 5% 1/6W    |
| R215    | 1-247-847-00 | CARBON      | 4.7K 5% 1/6W | R271    | 1-247-179-00 | CARBON      | 100K 5% 1/4W   |
| R216    | 1-247-879-00 | CARBON      | 100K 5% 1/6W | R272    | 1-246-517-25 | CARBON      | 68K 5% 1/4W    |
| R217    | 1-247-879-00 | CARBON      | 100K 5% 1/6W | R273    | 1-202-457-17 | SOLID       | 1.2M 5% 1/4W   |
| R218    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R274    | 1-247-171-00 | CARBON      | 47K 5% 1/4W    |
| R219    | 1-247-849-00 | CARBON      | 5.6K 5% 1/6W | R275    | 1-249-429-11 | CARBON      | 10K 5% 1/6W    |
| R220    | 1-247-867-00 | CARBON      | 33K 5% 1/6W  | R276    | 1-247-859-00 | CARBON      | 15K 5% 1/6W    |
| R221    | 1-247-869-00 | CARBON      | 39K 5% 1/6W  | R277    | 1-247-829-00 | CARBON      | 820 5% 1/6W    |
| R222    | 1-247-875-00 | CARBON      | 68K 5% 1/6W  | R278    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W   |
| R223    | 1-247-849-00 | CARBON      | 5.6K 5% 1/6W | R279    | 1-247-167-00 | CARBON      | 33K 5% 1/4W    |
| R224    | 1-247-891-00 | CARBON      | 330K 5% 1/6W | R280    | 1-249-437-11 | CARBON      | 47K 5% 1/6W    |
| R225    | 1-247-879-00 | CARBON      | 100K 5% 1/6W | R281    | 1-247-859-00 | CARBON      | 15K 5% 1/6W    |
| R226    | 1-247-878-00 | CARBON      | 91K 5% 1/6W  | R282    | 1-247-839-00 | CARBON      | 2.2K 5% 1/8W F |
| R228    | 1-249-419-11 | CARBON      | 1.5K 5% 1/6W | R283    | 1-247-847-00 | CARBON      | 4.7K 5% 1/6W   |
| R230    | 1-247-847-00 | CARBON      | 4.7K 5% 1/6W | R284    | 1-249-429-11 | CARBON      | 10K 5% 1/6W    |
| R231    | 1-247-873-00 | CARBON      | 56K 5% 1/6W  | R285    | 1-247-843-00 | CARBON      | 3.3K 5% 1/6W   |
| R232    | 1-247-821-00 | CARBON      | 390 5% 1/6W  | R286    | 1-247-843-00 | CARBON      | 3.3K 5% 1/6W   |
| R233    | 1-247-815-00 | CARBON      | 220 5% 1/6W  | R287    | 1-247-903-00 | CARBON      | 1M 5% 1/6W     |
| R234    | 1-247-815-00 | CARBON      | 220 5% 1/6W  | R288    | 1-247-879-00 | CARBON      | 100K 5% 1/6W   |
| R235    | 1-247-823-00 | CARBON      | 470 5% 1/6W  | R289    | 1-247-708-11 | CARBON      | 470 5% 1/4W    |
| R236    | 1-247-807-00 | CARBON      | 100 5% 1/6W  | R290    | 1-249-429-11 | CARBON      | 10K 5% 1/6W    |
| R237    | 1-247-815-00 | CARBON      | 220 5% 1/6W  | R291    | 1-249-429-11 | CARBON      | 10K 5% 1/6W    |
| R238    | 1-247-867-00 | CARBON      | 33K 5% 1/6W  | R296    | 1-247-179-00 | CARBON      | 100K 5% 1/4W   |
| R239    | 1-247-877-00 | CARBON      | 82K 5% 1/6W  | R302    | 1-249-437-11 | CARBON      | 47K 5% 1/6W    |
| R240    | 1-247-841-00 | CARBON      | 2.7K 5% 1/6W | R303    | 1-247-827-00 | CARBON      | 680 5% 1/6W    |
| R241    | 1-247-862-00 | CARBON      | 20K 5% 1/6W  | R304    | 1-247-827-00 | CARBON      | 680 5% 1/6W    |
| R242    | 1-247-854-00 | CARBON      | 9.1K 5% 1/6W | R305    | 1-247-827-00 | CARBON      | 680 5% 1/6W    |
| R243    | 1-247-857-00 | CARBON      | 12K 5% 1/6W  | R306    | 1-247-883-00 | CARBON      | 150K 5% 1/6W   |
| R244    | 1-247-843-00 | CARBON      | 3.3K 5% 1/6W | R307    | 1-247-819-00 | CARBON      | 330 5% 1/6W    |
| R245    | 1-247-849-00 | CARBON      | 5.6K 5% 1/6W | R308    | 1-249-434-11 | CARBON      | 27K 5% 1/6W    |
| R246    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R309    | 1-247-815-00 | CARBON      | 220 5% 1/6W    |
| R247    | 1-247-859-00 | CARBON      | 15K 5% 1/6W  | R310    | 1-247-843-00 | CARBON      | 3.3K 5% 1/6W   |
| R248    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R311    | 1-247-872-00 | CARBON      | 51K 5% 1/6W    |
| R249    | 1-249-437-11 | CARBON      | 47K 5% 1/6W  | R312    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W   |
| R250    | 1-247-885-00 | CARBON      | 180K 5% 1/6W | R313    | 1-247-847-00 | CARBON      | 4.7K 5% 1/6W   |
| R251    | 1-247-849-00 | CARBON      | 5.6K 5% 1/6W | R314    | 1-247-867-00 | CARBON      | 33K 5% 1/6W    |
| R252    | 1-247-853-00 | CARBON      | 8.2K 5% 1/6W | R315    | 1-249-419-11 | CARBON      | 1.5K 5% 1/6W   |
| R253    | 1-247-843-00 | CARBON      | 3.3K 5% 1/6W | R316    | 1-249-419-11 | CARBON      | 1.5K 5% 1/6W   |
| R254    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R317    | 1-247-827-00 | CARBON      | 680 5% 1/6W    |
| R255    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R318    | 1-247-813-00 | CARBON      | 180 5% 1/6W    |
| R256    | 1-247-853-00 | CARBON      | 8.2K 5% 1/6W | R319    | 1-247-823-00 | CARBON      | 470 5% 1/6W    |
| R258    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R324    | 1-247-127-00 | CARBON      | 680 5% 1/4W    |
| R259    | 1-247-853-00 | CARBON      | 8.2K 5% 1/6W | R325    | 1-249-429-11 | CARBON      | 10K 5% 1/6W    |
| R260    | 1-247-875-00 | CARBON      | 68K 5% 1/6W  | R326    | 1-247-845-00 | CARBON      | 3.9K 5% 1/6W   |
| R261    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R328    | 1-247-837-00 | CARBON      | 1.8K 5% 1/6W   |
| R262    | 1-247-879-00 | CARBON      | 100K 5% 1/6W | R329    | 1-247-845-00 | CARBON      | 3.9K 5% 1/6W   |
| R263    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R348    | 1-247-857-00 | CARBON      | 12K 5% 1/6W    |
| R264    | 1-247-875-00 | CARBON      | 68K 5% 1/6W  | R349    | 1-249-429-11 | CARBON      | 10K 5% 1/6W    |
| R265    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R354    | 1-247-704-11 | CARBON      | 220 5% 1/4W    |
| R266    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R371    | 1-247-831-00 | CARBON      | 1K 5% 1/6W     |
| R267    | 1-247-875-00 | CARBON      | 68K 5% 1/6W  | R372    | 1-247-845-00 | CARBON      | 3.9K 5% 1/6W   |
| R268    | 1-247-875-00 | CARBON      | 68K 5% 1/6W  | R373    | 1-249-429-11 | CARBON      | 10K 5% 1/6W    |

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| Ref.No. | Part No.     | Description | Remark       | Ref.No.           | Part No.     | Description               | Remark       |
|---------|--------------|-------------|--------------|-------------------|--------------|---------------------------|--------------|
| R374    | 1-247-861-00 | CARBON      | 18K 5% 1/6W  | R455              | 1-217-394-00 | FUSIBLE                   | 39 5% 1/4W F |
| R375    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R456              | 1-247-867-00 | CARBON                    | 33K 5% 1/6W  |
| R376    | 1-247-843-00 | CARBON      | 3.3K 5% 1/6W | R457              | 1-247-867-00 | CARBON                    | 33K 5% 1/6W  |
| R401    | 1-247-819-00 | CARBON      | 330 5% 1/6W  | R458              | 1-247-867-00 | CARBON                    | 33K 5% 1/6W  |
| R402    | 1-247-819-00 | CARBON      | 330 5% 1/6W  | R459              | 1-247-867-00 | CARBON                    | 33K 5% 1/6W  |
| R403    | 1-247-867-00 | CARBON      | 33K 5% 1/6W  | R460              | 1-247-843-00 | CARBON                    | 3.3K 5% 1/6W |
| R404    | 1-249-434-11 | CARBON      | 27K 5% 1/6W  | R461              | 1-247-849-00 | CARBON                    | 5.6K 5% 1/6W |
| R405    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R462              | 1-247-842-00 | CARBON                    | 3K 5% 1/6W   |
| R407    | 1-213-135-00 | METAL OXIDE | 220 5% 1W F  | R463              | 1-247-831-00 | CARBON                    | 1K 5% 1/6W   |
| R408    | 1-247-821-00 | CARBON      | 390 5% 1/6W  | R464              | 1-247-831-00 | CARBON                    | 1K 5% 1/6W   |
| R409    | 1-246-439-00 | CARBON      | 39 5% 1/4W   | R467              | 1-247-831-00 | CARBON                    | 1K 5% 1/6W   |
| R410    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R468              | 1-247-867-00 | CARBON                    | 33K 5% 1/6W  |
| R411    | 1-247-104-00 | CARBON      | 75 5% 1/4W   | R469              | 1-247-869-00 | CARBON                    | 39K 5% 1/6W  |
| R412    | 1-247-104-00 | CARBON      | 75 5% 1/4W   | R470              | 1-249-437-11 | CARBON                    | 47K 5% 1/6W  |
| R413    | 1-247-825-00 | CARBON      | 560 5% 1/6W  | R471              | 1-247-867-00 | CARBON                    | 33K 5% 1/6W  |
| R414    | 1-247-851-00 | CARBON      | 6.8K 5% 1/6W | R472              | 1-247-837-00 | CARBON                    | 1.8K 5% 1/6W |
| R415    | 1-247-845-00 | CARBON      | 3.9K 5% 1/6W | R473              | 1-247-104-00 | CARBON                    | 75 5% 1/4W   |
| R416    | 1-247-817-00 | CARBON      | 270 5% 1/6W  | R485              | 1-247-093-00 | CARBON                    | 27 5% 1/4W   |
| R417    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R486              | 1-247-093-00 | CARBON                    | 27 5% 1/4W   |
| R418    | 1-247-104-00 | CARBON      | 75 5% 1/4W   | R487              | 1-247-093-00 | CARBON                    | 27 5% 1/4W   |
| R419    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R488              | 1-249-429-11 | CARBON                    | 10K 5% 1/6W  |
| R420    | 1-247-837-00 | CARBON      | 1.8K 5% 1/6W | R491              | 1-249-447-11 | CARBON                    | 1 5% 1/4W    |
| R421    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R492              | 1-247-826-00 | CARBON                    | 620 5% 1/6W  |
| R423    | 1-247-819-00 | CARBON      | 330 5% 1/6W  | R496              | 1-247-843-00 | CARBON                    | 3.3K 5% 1/6W |
| R424    | 1-247-823-00 | CARBON      | 470 5% 1/6W  | R497              | 1-247-815-00 | CARBON                    | 220 5% 1/6W  |
| R425    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R498              | 1-249-429-11 | CARBON                    | 10K 5% 1/6W  |
| R426    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R499              | 1-247-815-00 | CARBON                    | 220 5% 1/6W  |
| R427    | 1-247-875-00 | CARBON      | 68K 5% 1/6W  | VARIABLE RESISTOR |              |                           |              |
| R428    | 1-247-867-00 | CARBON      | 33K 5% 1/6W  | RV101             | 1-226-845-00 | RES, ADJ, CARBON          | 330          |
| R429    | 1-249-419-11 | CARBON      | 1.5K 5% 1/6W | RV103             | 1-226-849-00 | RES, ADJ, CARBON          | 3.3K         |
| R430    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | RV104             | 1-226-852-00 | RES, ADJ, CARBON          | 22K          |
| R431    | 1-247-104-00 | CARBON      | 75 5% 1/4W   | RV105             | 1-226-852-00 | RES, ADJ, CARBON          | 22K          |
| R432    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | RV106             | 1-226-849-00 | RES, ADJ, CARBON          | 3.3K         |
| R433    | 1-247-875-00 | CARBON      | 68K 5% 1/6W  | RV107             | 1-228-724-00 | RES, ADJ, CARBON          | 10K          |
| R434    | 1-247-867-00 | CARBON      | 33K 5% 1/6W  | RV108             | 1-226-850-00 | RES, ADJ, CARBON          | 4.7K         |
| R435    | 1-249-419-11 | CARBON      | 1.5K 5% 1/6W | RV109             | 1-228-724-00 | RES, ADJ, CARBON          | 10K          |
| R436    | 1-247-807-00 | CARBON      | 100 5% 1/6W  | RV110             | 1-226-846-00 | RES, ADJ, CARBON          | 470          |
| R439    | 1-247-893-00 | CARBON      | 390K 5% 1/6W | RV111             | 1-226-853-00 | RES, ADJ, CARBON          | 47K          |
| R440    | 1-247-897-00 | CARBON      | 560K 5% 1/6W | SWITCH            |              |                           |              |
| R441    | 1-247-861-00 | CARBON      | 18K 5% 1/6W  | S401              | 1-553-725-00 | SWITCH, SLIDE             |              |
| R442    | 1-247-849-00 | CARBON      | 5.6K 5% 1/6W | TRANSFORMER       |              |                           |              |
| R443    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | T101              | 1-408-513-00 | COIL (VARIABLE)           |              |
| R444    | 1-247-843-00 | CARBON      | 3.3K 5% 1/6W | T102              | 1-409-193-00 | COIL 3.58MHZ TRAP         |              |
| R445    | 1-247-807-00 | CARBON      | 100 5% 1/6W  | T103              | 1-409-193-00 | COIL 3.58MHZ TRAP         |              |
| R446    | 1-247-863-00 | CARBON      | 22K 5% 1/6W  | T104              | 1-404-081-00 | TRANSFORMER, DELAY ADJUST |              |
| R447    | 1-247-819-00 | CARBON      | 330 5% 1/6W  | T201              | 1-404-146-00 | TRANSFORMER               |              |
| R448    | 1-247-843-00 | CARBON      | 3.3K 5% 1/6W | T202              | 1-408-532-00 | COIL, VARIABLE            |              |
| R449    | 1-247-827-00 | CARBON      | 680 5% 1/6W  | T203              | 1-408-532-00 | COIL, VARIABLE            |              |
| R450    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | T204              | 1-408-513-00 | COIL (VARIABLE)           |              |
| R451    | 1-247-825-00 | CARBON      | 560 5% 1/6W  |                   |              |                           |              |
| R452    | 1-247-823-00 | CARBON      | 470 5% 1/6W  |                   |              |                           |              |
| R453    | 1-247-807-00 | CARBON      | 100 5% 1/6W  |                   |              |                           |              |
| R454    | 1-247-863-00 | CARBON      | 22K 5% 1/6W  |                   |              |                           |              |

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| Ref.No.                         | Part No.      | Description                      | Remark   | Ref.No.          | Part No.      | Description                   | Remark   |
|---------------------------------|---------------|----------------------------------|----------|------------------|---------------|-------------------------------|----------|
| <u>THERMISTOR</u>               |               |                                  |          |                  |               |                               |          |
| TH101                           | 1-800-070-XX  | THERMISTOR TH-4700               |          | C646             | 1-123-359-00  | ELECT 47MF                    | 20% 50V  |
| TH201                           | 1-800-626-00  | THERMISTOR                       |          | C647             | 1-123-024-00  | ELECT 33MF                    | 160V     |
| <u>CRYSTAL</u>                  |               |                                  |          | C648             | 1-161-742-12  | CERAMIC 0.0022MF              | 20% 400V |
| X101                            | 1-527-396-00  | CRYSTAL, OSC                     |          | C649             | 1-161-742-12  | CERAMIC 0.0022MF              | 20% 400V |
| X102                            | 1-527-345-00  | CRYSTAL, OSC                     |          | C650             | 1-130-712-11  | FILM 0.47MF                   | 20% 250V |
| *****                           |               |                                  |          | C656             | 1-101-004-00  | CERAMIC 0.01MF                | 50V      |
| *A-1245-297-A F BOARD, COMPLETE |               |                                  |          | C657             | 1-101-004-00  | CERAMIC 0.01MF                | 50V      |
| *****                           |               |                                  |          | C658             | 1-108-429-00  | MYLAR 0.047MF                 | 10% 200V |
| <u>CAPACITOR</u>                |               |                                  |          | C659             | 1-102-820-00  | CERAMIC 330PF                 | 5% 50V   |
| C600                            | 1-130-712-11  | FILM 0.47MF                      | 20% 250V | C660             | 1-101-004-00  | CERAMIC 0.01MF                | 50V      |
|                                 | *4-316-137-00 | COVER, CAPACITOR; C600           |          | C667             | 1-162-578-12  | CERAMIC 0.0047MF              | 20% 400V |
| C601                            | 1-130-711-11  | FILM 0.22MF                      | 20% 250V | C668             | 1-162-578-12  | CERAMIC 0.0047MF              | 20% 400V |
| C602                            | 1-108-777-62  | MYLAR 0.022MF                    | 20% 300V | <u>DIODE</u>     |               |                               |          |
| C603                            | 1-161-973-12  | CERAMIC 220PF                    | 10% 400V | D601             | 8-719-503-06  | DIODE S3W860Z                 |          |
| C604                            | 1-161-973-12  | CERAMIC 220PF                    | 10% 400V | D602             | 8-719-100-77  | DIODE RD18E-B2                |          |
| C605                            | 1-162-578-12  | CERAMIC 0.0047MF                 | 20% 400V | D603             | 8-719-911-55  | DIODE U05G                    |          |
| C606                            | 1-162-578-12  | CERAMIC 0.0047MF                 | 20% 400V | D604             | 8-719-924-06  | DIODE ERC24-06S               |          |
| C607                            | 1-161-738-12  | CERAMIC 0.0047MF                 | 20% 400V | D605             | 8-719-924-06  | DIODE ERC24-06S               |          |
| C608                            | 1-161-738-12  | CERAMIC 0.0047MF                 | 20% 400V | D606             | 8-719-200-02  | DIODE 10E2                    |          |
| C609                            | 1-161-738-12  | CERAMIC 0.0047MF                 | 20% 400V | D607             | 8-719-300-76  | DIODE RH1A                    |          |
| C610                            | 1-161-738-12  | CERAMIC 0.0047MF                 | 20% 400V | D608             | 8-719-102-74  | DIODE RD6.2E-N2               |          |
|                                 | 4-875-455-21  | COVER (DIA. 20), CAPACITOR; C610 |          | D609             | 8-719-901-83  | DIODE 1SS83                   |          |
| C611                            | 1-125-287-00  | ELECT(BLOCK) 430MF               | 400V     | D610             | 8-719-100-87  | DIODE RD22E-B3                |          |
| C612                            | 1-123-335-00  | ELECT 330MF                      | 20% 25V  | D611             | 8-719-901-83  | DIODE 1SS83                   |          |
| C613                            | 1-136-065-00  | FILM 0.0027MF                    | 3% 2KV   | D612             | 8-719-900-26  | DIODE ERD29-08J               |          |
| C614                            | 1-123-337-00  | ELECT 1000MF                     | 20% 25V  | D613             | 8-719-901-93  | DIODE V19E                    |          |
| C615                            | 1-123-356-00  | ELECT 10MF                       | 20% 16V  | D614             | 8-719-901-93  | DIODE V19E                    |          |
| C616                            | 1-123-381-00  | ELECT 2.2MF                      | 20% 50V  | D615             | 8-719-981-00  | DIODE ERC81-004               |          |
| C617                            | 1-102-125-00  | CERAMIC 0.0047MF                 | 10% 50V  | D616             | 8-719-981-00  | DIODE ERC81-004               |          |
| C619                            | 1-106-180-00  | MYLAR 0.0022MF                   | 10% 100V | <u>CONNECTOR</u> |               |                               |          |
| C621                            | 1-123-356-00  | ELECT 10MF                       | 20% 16V  | F1               | *1-506-349-21 | 3P PLUG (L)                   |          |
| C622                            | 1-101-006-00  | CERAMIC 0.047MF                  | 50V      | F2               | *1-506-349-21 | 3P PLUG (L)                   |          |
| C623                            | 1-102-820-00  | CERAMIC 330PF                    | 5% 50V   | F3               | *1-508-765-00 | 3P PLUG (M)                   |          |
| C624                            | 1-123-381-00  | ELECT 2.2MF                      | 20% 50V  | F4               | *1-560-124-00 | PLUG, CONNECTOR (2.5MM PITCH) |          |
| C625                            | 1-123-380-00  | ELECT 1MF                        | 20% 50V  | F5               | *1-560-126-00 | PLUG, CONNECTOR (2.5MM) 6P    |          |
| C626                            | 1-102-095-00  | CERAMIC 330PF                    | 20% 1KV  | F6               | *1-508-766-00 | 4P PLUG (M)                   |          |
| C627                            | 1-123-024-00  | ELECT 33MF                       | 160V     | F7               | *1-560-123-00 | PLUG, CONNECTOR (2.5MM) 3P    |          |
| C628                            | 1-123-024-00  | ELECT 33MF                       | 160V     | F8               | *1-560-123-00 | PLUG, CONNECTOR (2.5MM PITCH) |          |
| C629                            | 1-123-360-00  | ELECT 100MF                      | 20% 50V  | <u>FUSE</u>      |               |                               |          |
| C630                            | 1-123-998-00  | ELECT 470MF                      | 20% 25V  | F601             | 1-532-299-11  | FUSE, TIME-LAG 5A             |          |
| C631                            | 1-123-998-00  | ELECT 470MF                      | 20% 25V  |                  | 1-533-087-00  | HOLDER, FUSE; F601            |          |
| C632                            | 1-123-323-00  | ELECT 470MF                      | 20% 16V  | <u>IC</u>        |               |                               |          |
| C635                            | 1-102-123-00  | CERAMIC 0.0033MF                 | 10% 50V  | IC601            | 8-759-100-75  | IC UPC1394C                   |          |
| C640                            | 1-161-973-12  | CERAMIC 220PF                    | 10% 400V | <u>COIL</u>      |               |                               |          |
|                                 | *4-374-846-11 | COVER, CAPACITOR, CAP TYPE; C640 |          | L601             | 1-408-225-00  | MICRO INDUCTOR 3.3UH          |          |
| C643                            | 1-123-333-00  | ELECT 100MF                      | 20% 16V  | L602             | 1-407-365-00  | COIL, CHOKE (HIGH FREQUENCY)  |          |
| C644                            | 1-123-334-00  | ELECT 220MF                      | 20% 25V  | L603             | 1-407-687-00  | MICRO INDUCTOR 3.3UH          |          |
| C645                            | 1-123-334-00  | ELECT 220MF                      | 20% 25V  |                  |               |                               |          |

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

F F2

| Ref.No.    | Part No.       | Description                         | Remark |
|------------|----------------|-------------------------------------|--------|
| L609       | 1-459-155-00   | COIL (WITH CORE) 45UH               |        |
| L610       | 1-459-155-00   | COIL (WITH CORE) 45UH               |        |
| L612       | 1-459-155-00   | COIL (WITH CORE) 45UH               |        |
| L613       | 1-407-687-00   | MICRO INDUCTOR 3.3UH                |        |
| TRANSISTOR |                |                                     |        |
| Q601       | 8-729-992-91   | TRANSISTOR 2SC2929                  |        |
| Q602       | 8-729-313-82   | TRANSISTOR 2SD1138                  |        |
|            | *4-347-706-00  | HEAT SINK (TR); Q602                |        |
| Q603       | 8-729-177-43   | TRANSISTOR 2SD774                   |        |
| Q604       | 8-729-177-43   | TRANSISTOR 2SD774                   |        |
| Q605       | 8-729-802-74   | TRANSISTOR 2SD1402                  |        |
|            | 4-363-414-00   | SPACER, MICA; Q605                  |        |
|            | *4-367-204-00  | HOLDER (REG OUT), TRANSFORMER; Q605 |        |
| Q606       | 8-729-177-43   | TRANSISTOR 2SD774                   |        |
| RESISTOR   |                |                                     |        |
| R601       | △.1-202-846-11 | SOLID 470K 10% 1/2W                 |        |
| R602       | △.1-247-289-11 | CARBON 8.2M 5% 1W                   |        |
| R603       | 1-244-929-00   | CARBON 220K 5% 1/2W                 |        |
| R604       | 1-206-680-00   | METAL OXIDE 4.7K 5% 2W              | F      |
| R605       | 1-247-242-00   | CARBON 1.2K 5% 1/2W                 |        |
| R606       | 1-206-479-00   | METAL OXIDE 47 5% 2W                | F      |
| R607       | 1-247-805-00   | CARBON 82 5% 1/6W                   |        |
| R608       | 1-217-193-00   | WIREWOUND 0.27 10% 2W               | F      |
| R609A      | 1-206-731-00   | METAL OXIDE 1.8K 5% 3W              | F      |
| R609B      | 1-206-729-00   | METAL OXIDE 1.5K 5% 3W              | F      |
| R610A      | 1-206-731-00   | METAL OXIDE 1.8K 5% 3W              | F      |
| R610B      | 1-206-729-00   | METAL OXIDE 1.5K 5% 3W              | F      |
| R611       | 1-213-145-00   | METAL OXIDE 1.5K 5% 1W              | F      |
| R612       | 1-247-870-00   | CARBON 43K 5% 1/6W                  |        |
| R613       | 1-247-819-00   | CARBON 330 5% 1/6W                  |        |
| R614       | 1-215-437-00   | METAL 4.7K 1% 1/6W                  |        |
| R615       | 1-215-437-00   | METAL 4.7K 1% 1/6W                  |        |
| R616       | 1-247-843-00   | CARBON 3.3K 5% 1/6W                 |        |
| R618       | 1-247-881-00   | CARBON 120K 5% 1/6W                 |        |
| R619       | 1-247-895-00   | CARBON 470K 5% 1/6W                 |        |
| R620       | 1-249-434-11   | CARBON 27K 5% 1/6W                  |        |
| R621       | 1-249-429-11   | CARBON 10K 5% 1/6W                  |        |
| R622       | 1-215-440-00   | METAL 6.2K 1% 1/6W                  |        |
| R624       | 1-215-456-00   | METAL 30K 1% 1/6W                   |        |
| R625       | 1-249-429-11   | CARBON 10K 5% 1/6W                  |        |
| R626       | 1-247-807-00   | CARBON 100 5% 1/6W                  |        |
| R627       | 1-249-437-11   | CARBON 47K 5% 1/6W                  |        |
| R628       | 1-247-831-00   | CARBON 1K 5% 1/6W                   |        |
| R629       | 1-247-829-00   | CARBON 820 5% 1/6W                  |        |
| R630       | 1-247-815-00   | CARBON 220 5% 1/6W                  |        |
| R631       | 1-213-163-00   | METAL OXIDE 47K 5% 1W               | F      |
| R632       | 1-247-807-00   | CARBON 100 5% 1/8W                  | F      |
| *R640      | 1-247-866-00   | CARBON 30K 5% 1/6W                  |        |
| *R640      | 1-247-867-00   | CARBON 33K 5% 1/6W                  |        |
| *R640      | 1-247-868-00   | CARBON 36K 5% 1/6W                  |        |
| *R640      | 1-247-869-00   | CARBON 39K 5% 1/6W                  |        |

| Ref.No.           | Part No.                    | Description              | Remark |
|-------------------|-----------------------------|--------------------------|--------|
| *R640             | 1-247-870-00                | CARBON 43K 5% 1/6W       |        |
| *R640             | 1-249-437-11                | CARBON 47K 5% 1/6W       |        |
| *R640             | 1-247-872-00                | CARBON 51K 5% 1/6W       |        |
| *R640             | 1-247-873-00                | CARBON 56K 5% 1/6W       |        |
| R643              | 1-212-352-00                | METAL OXIDE 0.22 5% 1W   | F      |
| R644              | 1-217-418-00                | FUSIBLE 0.47 10% 1/2W    | F      |
| R645              | 1-212-356-11                | METAL OXIDE 0.47 5% 1W   | F      |
| R646              | 1-212-356-11                | METAL OXIDE 0.47 5% 1W   | F      |
| R647              | 1-212-352-00                | METAL OXIDE 0.22 5% 1W   | F      |
| R648              | 1-202-841-00                | SOLID 180K 1/2W          |        |
| R649              | 1-202-433-35                | SOLID 120K 10% 1/4W      |        |
| R650              | 1-247-831-00                | CARBON 1K 5% 1/6W        |        |
| R660              | 1-247-692-11                | CARBON 22 5% 1/4W        | F      |
| R670              | 1-247-815-00                | CARBON 220 5% 1/6W       |        |
| R671              | 1-247-831-00                | CARBON 1K 5% 1/6W        |        |
| VARIABLE RESISTOR |                             |                          |        |
| RV601             | 1-224-249-XX                | RES, ADJ, METAL GLAZE 1K |        |
| TRANSFORMER       |                             |                          |        |
| T601              | △.1-421-352-11              | TRANSFORMER, FERRITE     |        |
| T602              | △.1-421-352-11              | TRANSFORMER, FERRITE     |        |
| T603              | △.1-421-691-11              | SRT                      |        |
| T604              | △.1-421-678-11              | TRANSFORMER, PULS        |        |
| THERMISTOR        |                             |                          |        |
| TH601             | △.1-800-820-12              | THERMISTOR, POWER        |        |
| △THP601           | 1-800-665-11                | THERMISTOR               |        |
| THP602            | 1-806-449-11                | THERMISTOR (POSITIVE)    |        |
| *****             |                             |                          |        |
| *1-613-847-11     | F2 BOARD                    | *****                    |        |
| *1-564-315-00     | PIN ASSY, BOARD TO BOARD 7P |                          |        |
| CAPACITOR         |                             |                          |        |
| C655              | 1-123-381-00                | ELECT 2.2MF 20% 50V      |        |
| DIODE             |                             |                          |        |
| D617              | 8-729-101-31                | TRANSISTOR N13T1         |        |
| D620              | 8-719-102-90                | DIODE RD10E-N2           |        |
| TRANSISTOR        |                             |                          |        |
| Q609              | 8-729-245-83                | TRANSISTOR 2SC2458       |        |
| RESISTOR          |                             |                          |        |
| R655              | 1-214-597-00                | METAL OXIDE 100K 5% 2W   | F      |
| R656              | 1-247-725-11                | CARBON 10K 5% 1/4W       |        |
| R657              | 1-247-807-00                | CARBON 100 5% 1/6W       |        |
| R658              | 1-247-883-00                | CARBON 150K 5% 1/6W      |        |

\* : selected to yield optimum performance.

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

A

| Ref.No. | Part No.      | Description                   | Remark  | Ref.No. | Part No.     | Description             | Remark    |
|---------|---------------|-------------------------------|---------|---------|--------------|-------------------------|-----------|
|         | *A-1296-057-A | A BOARD, COMPLETE<br>*****    |         | C201    | 1-161-377-00 | CERAMIC 0.0047MF        | 20% 50V   |
|         |               |                               |         | C203    | 1-102-529-00 | CERAMIC 100PF           | 5% 50V    |
|         | *4-317-752-00 | LID, UPPER, SHIELD CASE (A)   |         | C204    | 1-102-525-00 | CERAMIC 68PF            | 5% 50V    |
|         | *4-317-753-13 | LID, BOTTOM, SHIELD CASE (A)  |         | C205    | 1-102-505-00 | CERAMIC 6PF             | 0.5PF 50V |
|         | *4-317-759-00 | SHIELD CASE (A), MAIN         |         | C206    | 1-102-074-00 | CERAMIC 0.001MF         | 10% 50V   |
|         | *4-336-029-00 | PLATE, SHIELD                 |         | C207    | 1-102-852-00 | CERAMIC 47PF            | 5% 50V    |
|         | *4-336-030-00 | CASE (MAIN), SHIELD, VIF      |         | C208    | 1-161-377-00 | CERAMIC 0.0047MF        | 20% 50V   |
|         | *4-351-217-00 | CASE (UPPER), SHIELD, VIF     |         | C209    | 1-161-377-00 | CERAMIC 0.0047MF        | 20% 50V   |
|         | *4-351-218-00 | CASE (LOWER), SHIELD, VIF     |         | C210    | 1-161-377-00 | CERAMIC 0.0047MF        | 20% 50V   |
|         |               |                               |         | C211    | 1-161-377-00 | CERAMIC 0.0047MF        | 20% 50V   |
|         | CONNECTOR     |                               |         | C212    | 1-161-377-00 | CERAMIC 0.0047MF        | 20% 50V   |
| A1      | *1-560-126-00 | PLUG, CONNECTOR (2.5MM) 6P    |         | C213    | 1-161-377-00 | CERAMIC 0.0047MF        | 20% 50V   |
| A2      | *1-560-290-00 | PLUG, CONNECTOR (2.5MM PITCH) |         | C214    | 1-102-520-00 | CERAMIC 39PF            | 5% 50V    |
| A3      | *1-560-290-00 | PLUG, CONNECTOR (2.5MM PITCH) |         | C215    | 1-161-254-00 | CERAMIC 3.9PF           | 10% 50V   |
| A4      | *1-560-124-00 | PLUG, CONNECTOR (2.5MM) 4P    |         | C216    | 1-161-254-00 | CERAMIC 3.9PF           | 10% 50V   |
| A5      | *1-560-123-00 | PLUG, CONNECTOR (2.5MM) 3P    |         | C217    | 1-161-278-00 | CERAMIC 8.2PF           | 10% 50V   |
| A6      | *1-560-290-00 | PLUG, CONNECTOR (2.5MM PITCH) |         | C218    | 1-102-529-00 | CERAMIC 100PF           | 5% 50V    |
| A7      | *1-560-128-00 | PLUG, CONNECTOR (2.5MM PITCH) |         | C219    | 1-161-285-00 | CERAMIC 33PF            | 5% 50V    |
| A8      | *1-560-125-00 | PLUG, CONNECTOR (2.5MM PITCH) |         | C220    | 1-123-318-00 | ELECT 33MF              | 20% 16V   |
| A9      | *1-560-125-00 | PLUG, CONNECTOR (2.5MM) 5P    |         | C221    | 1-161-377-00 | CERAMIC 0.0047MF        | 20% 50V   |
| A10     | *1-560-290-00 | PLUG, CONNECTOR (2.5MM PITCH) |         | C222    | 1-161-377-00 | CERAMIC 0.0047MF        | 20% 50V   |
|         | CAPACITOR     |                               |         | C223    | 1-123-379-00 | ELECT 0.47MF            | 20% 50V   |
| C001    | 1-123-332-00  | ELECT 47MF                    | 20% 25V | C224    | 1-161-263-00 | CERAMIC 22PF            | 5% 50V    |
| C002    | 1-123-332-00  | ELECT 47MF                    | 20% 25V | C225    | 1-161-263-00 | CERAMIC 22PF            | 5% 50V    |
| C003    | 1-102-125-00  | CERAMIC 0.0047MF              | 10% 50V | C226    | 1-101-006-00 | CERAMIC 0.047MF         | 50V       |
| C004    | 1-123-357-00  | ELECT 22MF                    | 20% 50V | C230    | 1-123-356-00 | ELECT 10MF              | 20% 16V   |
| C006    | 1-102-125-00  | CERAMIC 0.0047MF              | 10% 50V | C233    | 1-102-123-00 | CERAMIC 0.0033MF        | 10% 50V   |
| C008    | 1-102-125-00  | CERAMIC 0.0047MF              | 10% 50V | C234    | 1-123-318-00 | ELECT 33MF              | 20% 16V   |
| C011    | 1-123-360-00  | ELECT 100MF                   | 20% 50V | C235    | 1-123-356-00 | ELECT 10MF              | 20% 16V   |
| C012    | 1-108-837-00  | MYLAR 0.01MF                  | 10% 50V | C237    | 1-101-004-00 | CERAMIC 0.01MF          | 50V       |
| C013    | 1-102-976-00  | CERAMIC 180PF                 | 5% 50V  | C239    | 1-106-216-00 | MYLAR 0.068MF           | 10% 100V  |
| C014    | 1-102-518-00  | CERAMIC 33PF                  | 5% 50V  | C240    | 1-106-216-00 | MYLAR 0.068MF           | 10% 100V  |
| C015    | 1-102-514-00  | CERAMIC 22PF                  | 5% 50V  | C241    | 1-106-196-00 | MYLAR 0.01MF            | 10% 100V  |
| C016    | 1-102-074-00  | CERAMIC 0.001MF               | 10% 50V | C242    | 1-102-963-00 | CERAMIC 33PF            | 5% 50V    |
| C017    | 1-102-074-00  | CERAMIC 0.001MF               | 10% 50V | C244    | 1-123-356-00 | ELECT 10MF              | 20% 16V   |
| C018    | 1-161-377-00  | CERAMIC 0.0047MF              | 20% 50V | C245    | 1-123-356-00 | ELECT 10MF              | 20% 16V   |
| C019    | 1-102-973-00  | CERAMIC 100PF                 | 5% 50V  | C246    | 1-108-603-00 | MYLAR 0.1MF             | 5% 50V    |
| C021    | 1-108-603-00  | MYLAR 0.1MF                   | 5% 50V  | C247    | 1-123-318-00 | ELECT 33MF              | 20% 16V   |
| C022    | 1-123-356-00  | ELECT 10MF                    | 20% 16V | C249    | 1-108-603-00 | MYLAR 0.1MF             | 5% 50V    |
| C023    | 1-102-836-00  | CERAMIC 470PF                 | 10% 50V | C250    | 1-102-109-00 | CERAMIC 180PF           | 10% 50V   |
| C024    | 1-101-004-00  | CERAMIC 0.01MF                | 50V     |         | FILTER       |                         |           |
| C025    | 1-123-356-00  | ELECT 10MF                    | 20% 16V | CF001   | 1-527-822-00 | OSCILLATOR, CERAMIC     |           |
| C026    | 1-101-004-00  | CERAMIC 0.01MF                | 50V     | CF201   | 1-409-333-00 | TRAP, CERAMIC (6.0MHZ)  |           |
| C027    | 1-101-004-00  | CERAMIC 0.01MF                | 50V     | CF202   | 1-527-263-00 | CERAMIC FILTER (5.5MHZ) |           |
| C028    | 1-101-004-00  | CERAMIC 0.01MF                | 50V     | CF203   | 1-404-320-00 | DISCRIMINATOR, CERAMIC  |           |
| C029    | 1-101-004-00  | CERAMIC 0.01MF                | 50V     | CF204   | 1-404-134-00 | TRAP, CERAMIC (5.5MHZ)  |           |
| C030    | 1-123-360-00  | ELECT 100MF                   | 20% 50V |         | DIODE        |                         |           |
| C031    | 1-101-004-00  | CERAMIC 0.01MF                | 50V     | D001    | 8-759-157-40 | IC UPC574J              |           |
| C032    | 1-101-004-00  | CERAMIC 0.01MF                | 50V     | D003    | 8-719-911-19 | DIODE 1SS119            |           |
| C036    | 1-161-315-00  | CERAMIC 220PF                 | 10% 50V | D004    | 8-719-911-19 | DIODE 1SS119            |           |
| C037    | 1-161-315-00  | CERAMIC 220PF                 | 10% 50V | D005    | 8-719-911-19 | DIODE 1SS119            |           |
| C200    | 1-123-380-00  | ELECT 1MF                     | 20% 50V | D006    | 8-719-911-19 | DIODE 1SS119            |           |



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| Ref.No.    | Part No.      | Description               | Remark | Ref.No.  | Part No.     | Description             | Remark |
|------------|---------------|---------------------------|--------|----------|--------------|-------------------------|--------|
| D007       | 8-719-911-19  | DIODE 1SS119              |        | Q204     | 8-729-245-83 | TRANSISTOR 2SC2458      |        |
| D008       | 8-719-911-19  | DIODE 1SS119              |        | Q205     | 8-729-245-83 | TRANSISTOR 2SC2458      |        |
| D009       | 8-719-911-19  | DIODE 1SS119              |        | Q206     | 8-729-245-83 | TRANSISTOR 2SC2458      |        |
| D010       | 8-719-911-19  | DIODE 1SS119              |        | RESISTOR |              |                         |        |
| D011       | 8-719-911-19  | DIODE 1SS119              |        | R001     | 1-247-725-11 | CARBON 10K 5% 1/4W      |        |
| D012       | 8-719-102-62  | DIODE RD4.3E-N2           |        | R002     | 1-247-179-00 | CARBON 100K 5% 1/4W     |        |
| D013       | 8-719-911-19  | DIODE 1SS119              |        | R003     | 1-247-163-00 | CARBON 22K 5% 1/4W      |        |
| D014       | 8-719-911-19  | DIODE 1SS119              |        | R004     | 1-247-163-00 | CARBON 22K 5% 1/4W      |        |
| IC         |               |                           |        | R005     | 1-246-530-00 | CARBON 240K 5% 1/4W     |        |
| IC001      | 8-759-600-71  | IC CX519-011P             |        | R007     | 1-249-459-11 | CARBON 12K 5% 1/4W      |        |
| IC002      | 8-759-600-66  | IC M58653P                |        | R008     | 1-247-145-00 | CARBON 3.9K 5% 1/4W     |        |
| IC003      | 8-759-600-15  | IC M54570L                |        | R009     | 1-247-708-11 | CARBON 470 5% 1/4W      |        |
| IC004      | 8-759-170-12  | IC UPC78M12H              |        | R010     | 1-246-533-00 | CARBON 330K 5% 1/4W     |        |
|            | *4-323-833-00 | HEAT SINK, PIN OUT; IC004 |        | R011     | 1-246-545-00 | CARBON 1M 5% 1/4W       |        |
| IC005      | 8-759-170-05  | IC UPC78M05H              |        | R012     | 1-247-163-00 | CARBON 22K 5% 1/4W      |        |
|            | *4-323-833-00 | HEAT SINK, PIN OUT; IC005 |        | R013     | 1-249-460-11 | CARBON 15K 5% 1/4W      |        |
| IC201      | 8-759-276-07  | IC TA7607AP               |        | R014     | 1-247-163-00 | CARBON 22K 5% 1/4W      |        |
| IC202      | 8-759-113-82  | IC UPC1382C               |        | R015     | 1-247-725-11 | CARBON 10K 5% 1/4W      |        |
| COIL       |               |                           |        | R016     | 1-247-725-11 | CARBON 10K 5% 1/4W      |        |
| L001       | 1-408-227-00  | MICRO INDUCTOR 470UH      |        | R017     | 1-247-725-11 | CARBON 10K 5% 1/4W      |        |
| L002       | 1-408-231-00  | MICRO INDUCTOR 1MMH       |        | R018     | 1-247-725-11 | CARBON 10K 5% 1/4W      |        |
| L201       | 1-404-068-00  | COIL, VIF                 |        | R019     | 1-247-725-11 | CARBON 10K 5% 1/4W      |        |
| L202       | 1-404-068-00  | COIL, VIF                 |        | R020     | 1-247-721-11 | CARBON 4.7K 5% 1/4W     |        |
| L203       | 1-407-682-00  | MICRO INDUCTOR 1.2UH      |        | R021     | 1-247-721-11 | CARBON 4.7K 5% 1/4W     |        |
| L204       | 1-407-687-00  | MICRO INDUCTOR 3.3UH      |        | R022     | 1-247-721-11 | CARBON 4.7K 5% 1/4W     |        |
| L205       | 1-404-207-00  | COIL, VIF                 |        | R023     | 1-214-739-00 | METAL 2.7K 1% 1/4W      |        |
| L206       | 1-404-203-00  | COIL, VIF                 |        | R024     | 1-214-748-00 | METAL 6.2K 1% 1/4W      |        |
| L207       | 1-404-289-00  | IFT                       |        | R025     | 1-247-721-11 | CARBON 4.7K 5% 1/4W     |        |
| L208       | 1-407-690-00  | MICRO INDUCTOR 5.6UH      |        | R026     | 1-247-721-11 | CARBON 4.7K 5% 1/4W     |        |
| L209       | 1-407-691-00  | MICRO INDUCTOR 6.8UH      |        | R027     | 1-247-708-11 | CARBON 470 5% 1/4W      |        |
| L210       | 1-407-696-00  | MICRO INDUCTOR 18UH       |        | R028     | 1-246-463-25 | CARBON 390 5% 1/4W      |        |
| L211       | 1-407-690-00  | MICRO INDUCTOR 5.6UH      |        | R029     | 1-247-119-00 | CARBON 330 5% 1/4W      |        |
| L212       | 1-407-703-00  | MICRO INDUCTOR 68UH       |        | R030     | 1-247-119-00 | CARBON 330 5% 1/4W      |        |
| L213       | 1-407-695-00  | MICRO INDUCTOR 15UH       |        | R031     | 1-247-119-00 | CARBON 330 5% 1/4W      |        |
| L214       | 1-408-247-00  | MICRO INDUCTOR 33MMH      |        | R032     | 1-247-119-00 | CARBON 330 5% 1/4W      |        |
| TRANSISTOR |               |                           |        | R033     | 1-247-119-00 | CARBON 330 5% 1/4W      |        |
| Q001       | 8-729-245-83  | TRANSISTOR 2SC2458        |        | R034     | 1-247-119-00 | CARBON 330 5% 1/4W      |        |
| Q002       | 8-729-204-83  | TRANSISTOR 2SA1048GR      |        | R035     | 1-247-119-00 | CARBON 330 5% 1/4W      |        |
| Q003       | 8-729-245-83  | TRANSISTOR 2SC2458        |        | R036     | 1-247-119-00 | CARBON 330 5% 1/4W      |        |
| Q004       | 8-729-204-83  | TRANSISTOR 2SA1048GR      |        | R037     | 1-247-725-11 | CARBON 10K 5% 1/4W      |        |
| Q005       | 8-729-204-83  | TRANSISTOR 2SA1048GR      |        | R038     | 1-247-149-00 | CARBON 5.6K 5% 1/4W     |        |
| Q006       | 8-729-245-83  | TRANSISTOR 2SC2458        |        | R039     | 1-247-704-11 | CARBON 220 5% 1/4W      |        |
| Q007       | 8-729-204-83  | TRANSISTOR 2SA1048GR      |        | R040     | 1-214-769-00 | METAL 47K 1% 1/4W       |        |
| Q008       | 8-729-245-83  | TRANSISTOR 2SC2458        |        | R041     | 1-214-769-00 | METAL 47K 1% 1/4W       |        |
| Q009       | 8-729-245-83  | TRANSISTOR 2SC2458        |        | R043     | 1-247-163-00 | CARBON 22K 5% 1/4W      |        |
| Q010       | 8-729-204-83  | TRANSISTOR 2SA1048GR      |        | R044     | 1-247-167-00 | CARBON 33K 5% 1/4W      |        |
| Q011       | 8-729-245-83  | TRANSISTOR 2SC2458        |        | R045     | 1-247-163-00 | CARBON 22K 5% 1/4W      |        |
| Q201       | 8-765-300-00  | TRANSISTOR 2SC2009        |        | R046     | 1-247-163-00 | CARBON 22K 5% 1/4W      |        |
| Q202       | 8-729-245-83  | TRANSISTOR 2SC2458        |        | R047     | 1-247-163-00 | CARBON 22K 5% 1/4W      |        |
| Q203       | 8-729-204-83  | TRANSISTOR 2SA1048GR      |        | R048     | 1-247-163-00 | CARBON 22K 5% 1/4W      |        |
|            |               |                           |        | R049     | 1-206-698-00 | METAL OXIDE 27K 5% 2W F |        |
|            |               |                           |        | R051     | 1-247-167-00 | CARBON 33K 5% 1/4W      |        |

A

C2

C1

| Ref.No. | Part No.     | Description         | Remark |
|---------|--------------|---------------------|--------|
| R052    | 1-247-163-00 | CARBON 22K 5% 1/4W  |        |
| R053    | 1-247-163-00 | CARBON 22K 5% 1/4W  |        |
| R054    | 1-247-777-00 | CARBON 5.6 5% 1/8W  | F      |
| R055    | 1-217-383-00 | FUSIBLE 4.7 5% 1/4W | F      |
| R056    | 1-247-713-11 | CARBON 1K 5% 1/4W   |        |
| R059    | 1-247-143-00 | CARBON 3.3K 5% 1/4W |        |
| R200    | 1-247-177-00 | CARBON 82K 5% 1/4W  |        |
| R201    | 1-247-167-00 | CARBON 33K 5% 1/4W  |        |
| R202    | 1-247-125-00 | CARBON 560 5% 1/4W  |        |
| R203    | 1-247-145-00 | CARBON 3.9K 5% 1/4W |        |
| R204    | 1-247-704-11 | CARBON 220 5% 1/4W  |        |
| R205    | 1-247-093-00 | CARBON 27 5% 1/4W   |        |
| R206    | 1-247-708-11 | CARBON 470 5% 1/4W  |        |
| R207    | 1-247-137-00 | CARBON 1.8K 5% 1/4W |        |
| R208    | 1-247-718-11 | CARBON 2.7K 5% 1/4W |        |
| R209    | 1-247-135-00 | CARBON 1.5K 5% 1/4W |        |
| R210    | 1-246-543-00 | CARBON 820K 5% 1/4W |        |
| R211    | 1-247-713-11 | CARBON 1K 5% 1/4W   |        |
| R212    | 1-247-704-11 | CARBON 220 5% 1/4W  |        |
| R213    | 1-247-700-11 | CARBON 100 5% 1/4W  |        |
| R214    | 1-247-704-11 | CARBON 220 5% 1/4W  |        |
| R215    | 1-247-703-11 | CARBON 180 5% 1/4W  |        |
| R216    | 1-247-171-00 | CARBON 47K 5% 1/4W  |        |
| R217    | 1-246-531-00 | CARBON 270K 5% 1/4W |        |
| R218    | 1-247-713-11 | CARBON 1K 5% 1/4W   |        |
| R219    | 1-247-179-00 | CARBON 100K 5% 1/4W |        |
| R220    | 1-247-161-00 | CARBON 18K 5% 1/4W  |        |
| R221    | 1-247-161-00 | CARBON 18K 5% 1/4W  |        |
| R222    | 1-247-119-00 | CARBON 330 5% 1/4W  |        |
| R223    | 1-247-713-11 | CARBON 1K 5% 1/4W   |        |
| R224    | 1-247-713-11 | CARBON 1K 5% 1/4W   |        |
| R225    | 1-247-708-11 | CARBON 470 5% 1/4W  |        |
| R226    | 1-247-704-11 | CARBON 220 5% 1/4W  |        |
| R227    | 1-247-171-00 | CARBON 47K 5% 1/4W  |        |
| R228    | 1-247-721-11 | CARBON 4.7K 5% 1/4W |        |
| R229    | 1-247-717-11 | CARBON 2.2K 5% 1/4W |        |
| R230    | 1-247-713-11 | CARBON 1K 5% 1/4W   |        |
| R231    | 1-247-143-00 | CARBON 3.3K 5% 1/4W |        |
| R232    | 1-246-533-00 | CARBON 330K 5% 1/4W |        |
| R233    | 1-247-717-11 | CARBON 2.2K 5% 1/4W |        |
| R235    | 1-246-535-00 | CARBON 390K 5% 1/4W |        |
| R236    | 1-247-167-00 | CARBON 33K 5% 1/4W  |        |
| R237    | 1-246-507-00 | CARBON 27K 5% 1/4W  |        |
| R238    | 1-246-529-00 | CARBON 220K 5% 1/4W |        |
| R240    | 1-247-717-11 | CARBON 2.2K 5% 1/4W |        |

## VARIABLE RESISTOR

RV201 1-224-644-XX RES, ADJ, CARBON 4.7K

## FILTER

SWF201 1-404-433-00 SAWF

| Ref.No.   | Part No.      | Description                | Remark |
|-----------|---------------|----------------------------|--------|
| TUNER     |               |                            |        |
| TU201A    | 1-463-350-31  | TUNER, ET (BT-881)         |        |
| *****     |               |                            |        |
|           | *1-613-038-11 | C2 BOARD                   | *****  |
| CONNECTOR |               |                            |        |
| C4        | *1-560-129-00 | PLUG, CONNECTOR (2.5MM) 9P |        |
| C5        | *1-560-129-00 | PLUG, CONNECTOR (2.5MM) 9P |        |
| SWITCH    |               |                            |        |
| S701      | 1-554-974-11  | SWITCH, SLIDE              |        |
| *****     |               |                            |        |
|           | *A-1330-603-A | C1 BOARD, COMPLETE         | *****  |
|           | 1-526-645-00  | SOCKET, CRT                |        |
| CONNECTOR |               |                            |        |
| C1        | *1-508-765-00 | 3P PLUG (M)                |        |
| C2        | *1-508-786-00 | 2P PLUG (M)                |        |
| CAPACITOR |               |                            |        |
| C701      | 1-123-329-51  | ELECT 10MF 20% 25V         |        |
| C703      | 1-102-116-00  | CERAMIC 680PF 10% 50V      |        |
| C704      | 1-124-039-51  | ELECT 10MF 20% 16V         |        |
| C705      | 1-102-115-00  | CERAMIC 560PF 10% 50V      |        |
| C705B     | 1-102-963-00  | CERAMIC 33PF 5% 50V        |        |
| C706      | 1-124-039-51  | ELECT 10MF 20% 16V         |        |
| C707      | 1-102-116-00  | CERAMIC 680PF 10% 50V      |        |
| C708      | 1-124-039-51  | ELECT 10MF 20% 16V         |        |
| C709      | 1-123-947-00  | ELECT 10MF 20% 250V        |        |
| C710      | 1-108-433-00  | MYLAR 0.1MF 10% 200V       |        |
| C711      | 1-102-038-00  | CERAMIC 0.001MF , 500V     |        |
| C712      | 1-129-737-00  | FILM 0.047MF 20% 630V      |        |
| C713      | 1-123-356-00  | ELECT 10MF 20% 50V         |        |
| C714      | 1-102-249-00  | CERAMIC 680PF 20% 2KV      |        |
| C715      | 1-102-219-00  | CERAMIC 680PF 20% 1KV      |        |
| DIODE     |               |                            |        |
| D701      | 8-719-300-76  | DIODE RH1A                 |        |
| D702      | 8-719-300-76  | DIODE RH1A                 |        |
| D703      | 8-719-300-76  | DIODE RH1A                 |        |
| COIL      |               |                            |        |
| L701      | 1-407-701-00  | MICRO INDUCTOR 47UH        |        |
| L702      | 1-407-701-00  | MICRO INDUCTOR 47UH        |        |
| L703      | 1-407-701-00  | MICRO INDUCTOR 47UH        |        |
| L704      | 1-407-701-00  | MICRO INDUCTOR 47UH        |        |

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

C1

D

| Ref.No.           | Part No.     | Description              | Remark |     |      |
|-------------------|--------------|--------------------------|--------|-----|------|
| TRANSISTOR        |              |                          |        |     |      |
| Q701              | 8-729-245-83 | TRANSISTOR 2SC2458       |        |     |      |
| Q702              | 8-729-168-82 | TRANSISTOR 2SC2688       |        |     |      |
|                   | 4-370-970-01 | SPACER, TR; Q702         |        |     |      |
| Q703              | 8-729-245-83 | TRANSISTOR 2SC2458       |        |     |      |
| Q704              | 8-729-168-82 | TRANSISTOR 2SC2688       |        |     |      |
|                   | 4-370-970-01 | SPACER, TR; Q704         |        |     |      |
| Q705              | 8-729-245-83 | TRANSISTOR 2SC2458       |        |     |      |
| Q706              | 8-729-168-82 | TRANSISTOR 2SC2688       |        |     |      |
|                   | 4-370-970-01 | SPACER, TR; Q706         |        |     |      |
| RESISTOR          |              |                          |        |     |      |
| R701              | 1-249-421-11 | CARBON                   | 2.2K   | 5%  | 1/6W |
| R702              | 1-247-823-00 | CARBON                   | 470    | 5%  | 1/6W |
| R703              | 1-247-823-00 | CARBON                   | 470    | 5%  | 1/6W |
| R704              | 1-247-793-00 | CARBON                   | 27     | 5%  | 1/6W |
| R705              | 1-206-743-00 | METAL OXIDE              | 5.6K   | 5%  | 3W F |
| R706              | 1-247-813-00 | CARBON                   | 180    | 5%  | 1/6W |
| R708              | 1-247-838-00 | CARBON                   | 2K     | 5%  | 1/6W |
| R709              | 1-249-421-11 | CARBON                   | 2.2K   | 5%  | 1/6W |
| R710              | 1-247-823-00 | CARBON                   | 470    | 5%  | 1/6W |
| R711              | 1-247-823-00 | CARBON                   | 470    | 5%  | 1/6W |
| R712              | 1-247-793-00 | CARBON                   | 27     | 5%  | 1/6W |
| R713              | 1-206-743-00 | METAL OXIDE              | 5.6K   | 5%  | 3W F |
| R714              | 1-247-813-00 | CARBON                   | 180    | 5%  | 1/6W |
| R716              | 1-247-838-00 | CARBON                   | 2K     | 5%  | 1/6W |
| R717              | 1-249-421-11 | CARBON                   | 2.2K   | 5%  | 1/6W |
| R718              | 1-247-823-00 | CARBON                   | 470    | 5%  | 1/6W |
| R719              | 1-247-823-00 | CARBON                   | 470    | 5%  | 1/6W |
| R720              | 1-247-793-00 | CARBON                   | 27     | 5%  | 1/6W |
| R721              | 1-206-743-00 | METAL OXIDE              | 5.6K   | 5%  | 3W F |
| R722              | 1-247-813-00 | CARBON                   | 180    | 5%  | 1/6W |
| R723              | 1-247-779-00 | CARBON                   | 6.8    | 5%  | 1/6W |
| R724              | 1-247-838-00 | CARBON                   | 2K     | 5%  | 1/6W |
| R725              | 1-247-694-11 | CARBON                   | 33     | 5%  | 1/4W |
| R726              | 1-244-925-00 | CARBON                   | 150K   | 5%  | 1/2W |
| R727              | 1-202-824-00 | SOLID                    | 3.3K   |     | 1/2W |
| R728              | 1-202-824-00 | SOLID                    | 3.3K   |     | 1/2W |
| R729              | 1-202-824-00 | SOLID                    | 3.3K   |     | 1/2W |
| R730              | 1-202-815-51 | SOLID                    | 47K    |     | 1/2W |
| R731              | 1-202-719-00 | SOLID                    | 1M     | 10% | 1/2W |
| R732              | 1-202-722-00 | SOLID                    | 1.8M   | 10% | 1/2W |
| R733              | 1-202-719-00 | SOLID                    | 1M     | 10% | 1/2W |
| R734              | 1-202-824-00 | SOLID                    | 3.3K   |     | 1/2W |
| R735              | 1-202-719-00 | SOLID                    | 1M     | 10% | 1/2W |
| R736              | 1-202-834-00 | SOLID                    | 27K    |     | 1/2W |
| R737              | 1-202-549-00 | SOLID                    | 100    | 5%  | 1/2W |
| R738              | 1-202-842-51 | SOLID                    | 220K   |     | 1/2W |
| VARIABLE RESISTOR |              |                          |        |     |      |
| RV701             | 1-228-719-00 | RES, ADJ, CERAMIC CARBON | 470    |     |      |
| RV702             | 1-228-723-00 | RES, ADJ, CERAMIC CARBON | 4.7K   |     |      |

| Ref.No.                         | Part No.     | Description              | Remark  |     |      |
|---------------------------------|--------------|--------------------------|---------|-----|------|
| RV703                           | 1-228-719-00 | RES, ADJ, CERAMIC CARBON | 470     |     |      |
| RV704                           | 1-228-723-00 | RES, ADJ, CERAMIC CARBON | 4.7K    |     |      |
| RV705                           | 1-228-719-00 | RES, ADJ, CERAMIC CARBON | 470     |     |      |
| RV706                           | 1-228-723-00 | RES, ADJ, CERAMIC CARBON | 4.7K    |     |      |
| RV707                           | 1-228-719-00 | RES, ADJ, CERAMIC CARBON | 470     |     |      |
| RV708                           | 1-228-723-00 | RES, ADJ, CERAMIC CARBON | 4.7K    |     |      |
| RV709                           | 1-228-719-00 | RES, ADJ, CERAMIC CARBON | 470     |     |      |
| RV710                           | 1-228-723-00 | RES, ADJ, CERAMIC CARBON | 4.7K    |     |      |
| RV711                           | 1-228-719-00 | RES, ADJ, CERAMIC CARBON | 470     |     |      |
| RV712                           | 1-228-723-00 | RES, ADJ, CERAMIC CARBON | 4.7K    |     |      |
| RV713                           | 1-226-114-00 | RES, ADJ, METAL GLAZE    | 2.2M    |     |      |
| RV714                           | 1-226-063-00 | RES, ADJ, CARBON         | 2.2M    |     |      |
| *****                           |              |                          |         |     |      |
| *A-1345-494-A D BOARD, COMPLETE |              |                          |         |     |      |
| *****                           |              |                          |         |     |      |
| CAPACITOR                       |              |                          |         |     |      |
| C504                            | 1-106-208-00 | MYLAR                    | 0.033MF | 10% | 100V |
| C505                            | 1-123-380-00 | ELECT                    | 1MF     | 20% | 50V  |
| C506                            | 1-108-587-00 | MYLAR                    | 0.022MF | 5%  | 50V  |
| C507                            | 1-123-380-00 | ELECT                    | 1MF     | 20% | 50V  |
| C508                            | 1-136-173-00 | FILM                     | 0.47MF  | 5%  | 50V  |
| C509                            | 1-123-380-00 | ELECT                    | 1MF     | 20% | 50V  |
| C511                            | 1-123-329-51 | ELECT                    | 10MF    | 20% | 25V  |
| C512                            | 1-123-380-00 | ELECT                    | 1MF     | 20% | 50V  |
| C513                            | 1-108-587-00 | MYLAR                    | 0.022MF | 5%  | 50V  |
| C514                            | 1-108-595-00 | MYLAR                    | 0.047MF | 5%  | 50V  |
| C515                            | 1-124-514-51 | ELECT                    | 100MF   | 20% | 50V  |
| C516                            | 1-102-228-00 | CERAMIC                  | 470PF   | 10% | 500V |
| C517                            | 1-106-204-00 | MYLAR                    | 0.022MF | 10% | 100V |
| C518                            | 1-123-329-51 | ELECT                    | 10MF    | 20% | 25V  |
| C519                            | 1-123-228-00 | ELECT                    | 1MF     | 20% | 50V  |
| C520                            | 1-123-330-00 | ELECT                    | 22MF    | 20% | 25V  |
| C521                            | 1-123-336-00 | ELECT                    | 470MF   | 20% | 25V  |
| C522                            | 1-123-330-00 | ELECT                    | 22MF    | 20% | 16V  |
| C523                            | 1-123-330-00 | ELECT                    | 22MF    | 20% | 16V  |
| C524                            | 1-123-380-00 | ELECT                    | 1MF     | 20% | 50V  |
| C525                            | 1-108-583-00 | MYLAR                    | 0.015MF | 5%  | 50V  |
| C526                            | 1-131-356-00 | TANTALUM                 | 3.3MF   | 10% | 25V  |
| C527                            | 1-123-323-00 | ELECT                    | 470MF   | 20% | 16V  |
| C529                            | 1-123-228-00 | ELECT                    | 1MF     | 20% | 50V  |
| C530                            | 1-108-579-00 | MYLAR                    | 0.01MF  | 5%  | 50V  |
| C531                            | 1-108-595-00 | MYLAR                    | 0.047MF | 5%  | 50V  |
| C532                            | 1-123-380-00 | ELECT                    | 1MF     | 20% | 50V  |
| C533                            | 1-123-356-00 | ELECT                    | 10MF    | 20% | 16V  |
| C534                            | 1-106-172-00 | MYLAR                    | 0.001MF | 5%  | 50V  |
| C535                            | 1-123-333-00 | ELECT                    | 100MF   | 20% | 25V  |
| C536                            | 1-123-336-00 | ELECT                    | 470MF   | 20% | 25V  |
| C540                            | 1-106-172-00 | MYLAR                    | 0.001MF | 10% | 100V |
| C751                            | 1-123-380-00 | ELECT                    | 1MF     | 20% | 50V  |
| C752                            | 1-124-043-51 | ELECT                    | 2.2MF   | 20% | 50V  |
| C753                            | 1-124-038-00 | ELECT                    | 1MF     | 20% | 50V  |

D

| Ref.No. | Part No.       | Description | Remark            | Ref.No.   | Part No.       | Description                   | Remark           |
|---------|----------------|-------------|-------------------|-----------|----------------|-------------------------------|------------------|
| C755    | 1-108-603-00   | MYLAR       | 0.1MF 5% 50V      | C853      | 1-102-212-00   | CERAMIC                       | 820PF 10% 500V   |
| C756    | 1-124-038-00   | ELECT       | 1MF 20% 50V       | C854      | 1-121-999-00   | ELECT                         | 10MF 160V        |
| C757    | 1-162-117-00   | CERAMIC     | 100PF 10% 500V    | C855      | 1-123-024-00   | ELECT                         | 33MF 160V        |
| C758    | 1-108-824-00   | MYLAR       | 0.47MF 5% 50V     | C856      | 1-108-429-00   | MYLAR                         | 0.047MF 10% 200V |
| C759    | 1-123-329-51   | ELECT       | 10MF 20% 25V      | C857      | 1-102-223-00   | CERAMIC                       | 0.0047MF 10% 2KV |
| C760    | 1-124-126-00   | ELECT       | 47MF 20% 25V      | C858      | 1-102-971-00   | CERAMIC                       | 82PF 5% 50V      |
| C761    | 1-123-382-00   | ELECT       | 3.3MF 20% 50V     | C859      | 1-123-369-00   | ELECT                         | 4.7MF 20% 50V    |
| C762    | 1-123-330-00   | ELECT       | 22MF 20% 25V      | C860      | 1-123-332-00   | ELECT                         | 47MF 20% 25V     |
| C764    | 1-123-334-00   | ELECT       | 220MF 20% 25V     | C861      | △ 1-136-065-11 | FILM                          | 0.0027MF 3% 2KV  |
| C766    | 1-123-380-00   | ELECT       | 1MF 20% 50V       | C862      | △ 1-136-066-11 | FILM                          | 0.003MF 3% 2KV   |
| C767    | 1-123-380-00   | ELECT       | 1MF 20% 50V       | C863      | △ 1-136-064-11 | FILM                          | 0.002MF 3% 2KV   |
| C768    | 1-106-220-00   | MYLAR       | 0.1MF 10% 100V    | C865      | 1-106-367-00   | MYLAR                         | 0.01MF 10% 200V  |
| C769    | 1-124-126-00   | ELECT       | 47MF 20% 25V      | C866      | 1-101-361-00   | CERAMIC                       | 150PF 5% 50V     |
| C801    | 1-136-173-00   | FILM        | 0.47MF 5% 50V     | C870      | 1-123-332-00   | ELECT                         | 47MF 20% 25V     |
| C802    | 1-123-381-00   | ELECT       | 2.2MF 20% 50V     | C871      | 1-123-380-00   | ELECT                         | 1MF 20% 50V      |
| C803    | 1-101-888-00   | CERAMIC     | 68PF 5% 50V       | C874      | 1-108-603-00   | MYLAR                         | 0.1MF 5% 50V     |
| C804    | 1-123-380-00   | ELECT       | 1MF 20% 50V       | C883      | 1-108-818-11   | MYLAR                         | 0.15MF 5% 50V    |
| C808    | 1-123-369-00   | ELECT       | 4.7MF 20% 25V     | C884      | 1-123-329-51   | ELECT                         | 10MF 20% 25V     |
| C811    | 1-106-204-00   | MYLAR       | 0.022MF 10% 100V  | C885      | 1-108-599-00   | MYLAR                         | 0.068MF 5% 50V   |
| C813    | 1-106-196-00   | MYLAR       | 0.01MF 10% 100V   | C886      | 1-106-180-00   | MYLAR                         | 0.0022MF 5% 50V  |
| C814    | 1-106-180-00   | MYLAR       | 0.0022MF 10% 100V | C889      | 1-108-818-11   | MYLAR                         | 0.15MF 5% 50V    |
| C815    | 1-129-794-00   | FILM        | 0.0033MF 5% 100V  | C893      | 1-102-116-00   | CERAMIC                       | 680PF 10% 50V    |
| C816    | 1-123-380-00   | ELECT       | 1MF 20% 50V       | CONNECTOR |                |                               |                  |
| C817    | 1-123-380-00   | ELECT       | 1MF 20% 50V       | D1        | *1-560-290-00  | PLUG, CONNECTOR (2.5MM PITCH) |                  |
| C818    | 1-123-330-00   | ELECT       | 22MF 20% 25V      | D2        | *1-560-128-00  | PLUG, CONNECTOR (2.5MM PITCH) |                  |
| C819    | 1-123-330-00   | ELECT       | 22MF 20% 25V      | D4        | *1-508-765-00  | 3P PLUG (M)                   |                  |
| C821    | 1-123-381-00   | ELECT       | 2.2MF 20% 50V     | D5        | *1-508-765-00  | 3P PLUG (M)                   |                  |
| C822    | 1-123-380-00   | ELECT       | 1MF 20% 50V       | D6        | *1-564-038-00  | CONNECTOR PLUG, DY (MINI) 6P  |                  |
| C823    | 1-123-356-00   | ELECT       | 10MF 20% 16V      | D7        | *1-508-766-00  | 4P PLUG (M)                   |                  |
| C824    | 1-123-356-00   | ELECT       | 10MF 20% 50V      | D8        | *1-560-290-00  | PLUG, CONNECTOR (2.5MM PITCH) |                  |
| C825    | 1-123-322-00   | ELECT       | 330MF 20% 16V     | D9        | *1-560-124-00  | PLUG, CONNECTOR (2.5MM) 4P    |                  |
| C827    | 1-123-379-00   | ELECT       | 0.47MF 20% 50V    | D10       | *1-560-123-00  | PLUG, CONNECTOR (2.5MM) 3P    |                  |
| C828    | 1-102-820-00   | CERAMIC     | 330PF 5% 50V      | D11       | *1-560-123-00  | PLUG, CONNECTOR (2.5MM PITCH) |                  |
| C829    | 1-106-385-00   | MYLAR       | 0.056MF 10% 200V  | D12       | *1-560-123-00  | PLUG, CONNECTOR (2.5MM PITCH) |                  |
| C830    | 1-102-030-00   | CERAMIC     | 330PF 10% 500V    | DIODE     |                |                               |                  |
| C832    | △ 1-161-961-11 | CERAMIC     | 0.0022MF 10% 3KV  | D501      | 8-719-100-23   | DIODE RD4.3E-B2               |                  |
| C833    | 1-108-431-00   | MYLAR       | 0.068MF 10% 200V  | D502      | 8-719-911-19   | DIODE 1SS119                  |                  |
| C834    | △ 1-136-064-11 | FILM        | 0.002MF 3% 2KV    | D504      | 8-719-911-19   | DIODE 1SS119                  |                  |
| C835    | △ 1-136-079-11 | FILM        | 0.01MF 3% 2KV     | D506      | 8-719-911-55   | DIODE U05G                    |                  |
| C836    | 1-136-186-00   | FILM        | 2.4MF 5% 200V     | D507      | 8-719-911-19   | DIODE 1SS119                  |                  |
| C837    | 1-108-433-00   | MYLAR       | 0.1MF 10% 200V    | D509      | 8-719-911-19   | DIODE 1SS119                  |                  |
| C838    | 1-136-112-00   | FILM        | 1.4MF 5% 200V     | D751      | 8-719-911-19   | DIODE 1SS119                  |                  |
| C839    | 1-130-566-00   | MYLAR       | 2.2MF 10% 250V    | D752      | 8-719-911-19   | DIODE 1SS119                  |                  |
| C840    | 1-136-123-00   | FILM        | 0.51MF 5% 400V    | D753      | 8-719-911-19   | DIODE 1SS119                  |                  |
| C841    | 1-123-267-00   | ELECT       | 2.2MF 20% 160V    | D754      | 8-719-911-19   | DIODE 1SS119                  |                  |
| C842    | 1-106-186-00   | MYLAR       | 0.0039MF 10% 100V | D801      | 8-719-911-55   | DIODE U05G                    |                  |
| C843    | 1-123-380-00   | ELECT       | 1MF 20% 50V       | D802      | 8-719-911-19   | DIODE 1SS119                  |                  |
| C844    | 1-123-322-00   | ELECT       | 330MF 20% 16V     | D803      | 8-719-100-30   | DIODE RD5.1E-B2               |                  |
| C846    | 1-123-347-00   | ELECT       | 330MF 20% 35V     | D804      | 8-719-100-80   | DIODE RD20E-B2                |                  |
| C849    | 1-108-603-00   | MYLAR       | 0.1MF 5% 50V      | D805      | 8-719-305-15   | DIODE GH3F                    |                  |
| C850    | 1-129-706-00   | FILM        | 0.0022MF 10% 630V |           |                |                               |                  |
| C851    | 1-106-367-00   | MYLAR       | 0.01MF 10% 200V   |           |                |                               |                  |
| C852    | 1-123-337-00   | ELECT       | 1000MF 20% 25V    |           |                |                               |                  |

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

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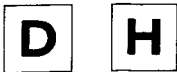
| Ref.No.    | Part No.      | Description                        | Remark | Ref.No.       | Part No.           | Description          | Remark       |
|------------|---------------|------------------------------------|--------|---------------|--------------------|----------------------|--------------|
| D806       | 8-719-928-08  | DIODE ERD28-08                     |        | Q756          | 8-729-177-43       | TRANSISTOR 2SD774    |              |
| D807       | 8-719-901-93  | DIODE V19E                         |        | Q757          | 8-729-177-43       | TRANSISTOR 2SD774    |              |
| D808       | 8-719-901-93  | DIODE V19E                         |        | Q758          | 8-729-374-02       | TRANSISTOR 2SB740    |              |
| D809       | 8-719-300-76  | DIODE RH1A                         |        | Q760          | 8-729-245-83       | TRANSISTOR 2SC2458   |              |
| D810       | 8-719-903-09  | DIODE V30N                         |        | Q801          | 8-729-245-83       | TRANSISTOR 2SC2458   |              |
| D812       | 8-719-300-76  | DIODE RH1A                         |        | Q802          | 8-729-204-83       | TRANSISTOR 2SA1048GR |              |
| D813       | 8-719-300-76  | DIODE RH1A                         |        | Q803          | 8-729-245-83       | TRANSISTOR 2SC2458   |              |
| D818       | 8-719-911-55  | DIODE U05G                         |        | Q804          | 8-729-168-82       | TRANSISTOR 2SC2688   |              |
| IC         |               |                                    |        | Q805          | 8-729-800-87       | TRANSISTOR 2SD1398   |              |
| IC501      | 8-759-100-60  | IC UPC1377C                        |        | *4-363-404-00 | HOLDER, IC; Q805   |                      |              |
| IC502      | 8-759-979-16  | IC CX7916                          |        | 4-363-414-00  | SPACER, MICA; Q805 |                      |              |
| IC503      | 8-759-113-78  | IC UPC1378H-L                      |        | Q806          | 8-729-313-82       | TRANSISTOR 2SD1138   |              |
| IC504      | 8-759-145-58  | IC UPC4558C                        |        | Q810          | 8-729-900-36       | TRANSISTOR DTC124ES  |              |
|            | 3-701-833-01  | HEAD, WASHER, TAPPING SCREW; IC503 |        | Q811          | 8-729-204-83       | TRANSISTOR 2SA1048GR |              |
| IC803      | 8-759-145-58  | IC UPC4558C                        |        | Q813          | 8-729-900-36       | TRANSISTOR DTC124ES  |              |
| IC804      | 8-759-905-39  | IC TDA1082                         |        | Q816          | 8-729-245-83       | TRANSISTOR 2SC2458   |              |
| IC805      | 8-759-700-06  | IC UPC7812H                        |        | Q819          | 8-729-245-83       | TRANSISTOR 2SC2458   |              |
|            | *4-323-833-00 | HEAT SINK, PIN OUT; IC805          |        | Q820          | 8-729-245-83       | TRANSISTOR 2SC2458   |              |
| COIL       |               |                                    |        | Q821          | 8-729-245-83       | TRANSISTOR 2SC2458   |              |
| L501       | 1-408-231-11  | MICRO INDUCTOR 1MMH                |        | Q822          | 8-729-245-83       | TRANSISTOR 2SC2458   |              |
| L752       | 1-407-508-00  | MICRO INDUCTOR 22MMH               |        | Q823          | 8-729-245-83       | TRANSISTOR 2SC2458   |              |
| L753       | 1-408-247-00  | MICRO INDUCTOR 33MMH               |        | Q824          | 8-729-245-83       | TRANSISTOR 2SC2458   |              |
| L802       | 1-408-349-00  | COIL, CHOKE                        |        | RESISTOR      |                    |                      |              |
| L803       | 1-408-238-00  | MICRO INDUCTOR 3.9MMH              |        | R504          | 1-247-847-00       | CARBON               | 4.7K 5% 1/6W |
| L804       | 1-459-241-11  | COIL, HORIZONTAL LINIALITY         |        | R505          | 1-247-869-00       | CARBON               | 39K 5% 1/6W  |
| L805       | 1-459-568-11  | COIL, CHOKE 980UH                  |        | R506          | 1-247-887-00       | CARBON               | 220K 5% 1/6W |
| L806       | 1-407-365-00  | COIL, CHOKE                        |        | R507          | 1-215-453-00       | METAL                | 22K 1% 1/6W  |
| L807       | 1-459-104-00  | COIL, DUST CORE                    |        | R508          | 1-247-833-00       | CARBON               | 1.2K 5% 1/6W |
| L808       | 1-407-364-00  | COIL, SPOOK CHOKE 3.3UH            |        | R509          | 1-215-471-00       | METAL                | 120K 1% 1/6W |
| L809       | 1-407-841-00  | COIL 15UH                          |        | R510          | 1-215-459-00       | METAL                | 39K 1% 1/6W  |
| L810       | 1-407-166-XX  | MICRO INDUCTOR 56UH                |        | R513          | 1-215-479-00       | METAL                | 270K 1% 1/6W |
| L811       | 1-459-155-00  | COIL (WITH CORE) 45UH              |        | R514          | 1-215-463-00       | METAL                | 56K 1% 1/6W  |
| L812       | 1-459-115-00  | COIL, DCC-H                        |        | R515          | 1-247-820-00       | CARBON               | 360 5% 1/6W  |
| L814       | 1-407-841-00  | COIL 15UH                          |        | R516          | 1-247-827-00       | CARBON               | 680 5% 1/6W  |
| L816       | 1-408-247-00  | MICRO INDUCTOR 33MMH               |        | R517          | 1-247-828-00       | CARBON               | 750 5% 1/6W  |
| TRANSISTOR |               |                                    |        | R518          | 1-247-815-00       | CARBON               | 220 5% 1/6W  |
| Q502       | 8-729-900-36  | TRANSISTOR DTC124ES                |        | R519          | 1-247-879-00       | CARBON               | 100K 5% 1/6W |
| Q503       | 8-729-900-36  | TRANSISTOR DTC124ES                |        | R520          | 1-247-847-00       | CARBON               | 4.7K 5% 1/6W |
| Q504       | 8-729-900-36  | TRANSISTOR DTC124ES                |        | R521          | 1-247-902-00       | CARBON               | 910K 5% 1/6W |
| Q505       | 8-729-900-63  | TRANSISTOR DTA124ES                |        | R522          | 1-215-458-00       | METAL                | 36K 1% 1/6W  |
| Q507       | 8-729-204-83  | TRANSISTOR 2SA1048GR               |        | R524          | 1-247-842-00       | CARBON               | 3K 5% 1/6W   |
| Q508       | 8-729-245-83  | TRANSISTOR 2SC2458                 |        | R525          | 1-247-857-00       | CARBON               | 12K 5% 1/6W  |
| Q510       | 8-729-105-73  | TRANSISTOR 2SK523-L2               |        | R526          | 1-247-846-00       | CARBON               | 4.3K 5% 1/6W |
| Q751       | 8-729-245-83  | TRANSISTOR 2SC2458                 |        | R528          | 1-215-373-31       | METAL                | 10 1% 1/6W   |
| Q752       | 8-729-313-42  | TRANSISTOR 2SD1134                 |        | R529          | 1-213-137-00       | METAL OXIDE          | 330 5% 1W F  |
| Q753       | 8-729-306-92  | TRANSISTOR 2SD669A                 |        | R530          | 1-213-137-00       | METAL OXIDE          | 330 5% 1W F  |
|            | *4-329-153-00 | HEAT SINK, V OUT; Q753             |        | R531          | 1-247-874-00       | CARBON               | 62K 5% 1/6W  |
| Q754       | 8-729-304-92  | TRANSISTOR 2SB649A                 |        | R532          | 1-247-870-00       | CARBON               | 43K 5% 1/6W  |
|            | *4-329-153-00 | HEAT SINK, V OUT; Q754             |        | R533          | 1-247-824-00       | CARBON               | 510 5% 1/6W  |
| Q755       | 8-729-177-43  | TRANSISTOR 2SD774                  |        | R534          | 1-247-824-00       | CARBON               | 510 5% 1/6W  |
|            |               |                                    |        | R542          | 1-212-366-00       | METAL OXIDE          | 3.3 5% 1W F  |
|            |               |                                    |        | R544          | 1-247-230-00       | CARBON               | 390 5% 1/2W  |

The components identified by shading and mark **A** are critical for safety. Replace only with part number specified.

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| Ref.No. | Part No.     | Description | Remark       | Ref.No. | Part No.     | Description | Remark        |
|---------|--------------|-------------|--------------|---------|--------------|-------------|---------------|
| R545    | 1-247-837-00 | CARBON      | 1.8K 5% 1/6W | R761    | 1-247-831-00 | CARBON      | 1K 5% 1/6W    |
| R546    | 1-247-851-00 | CARBON      | 6.8K 5% 1/6W | R762    | 1-247-827-00 | CARBON      | 680 5% 1/6W   |
| R547    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R763    | 1-247-886-00 | CARBON      | 200K 5% 1/6W  |
| R548    | 1-247-849-00 | CARBON      | 5.6K 5% 1/6W | R764    | 1-247-846-00 | CARBON      | 4.3K 5% 1/6W  |
| R549    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R765    | 1-213-147-00 | METAL OXIDE | 2.2K 5% 1W F  |
| R550    | 1-247-878-00 | CARBON      | 91K 5% 1/6W  | R766    | 1-247-802-00 | CARBON      | 62 5% 1/6W    |
| R551    | 1-249-437-11 | CARBON      | 47K 5% 1/6W  | R767    | 1-247-807-00 | CARBON      | 100 5% 1/6W   |
| R552    | 1-247-853-00 | CARBON      | 8.2K 5% 1/6W | R768    | 1-247-857-00 | CARBON      | 12K 5% 1/6W   |
| R553    | 1-247-847-00 | CARBON      | 4.7K 5% 1/6W | R769    | 1-247-021-00 | CARBON      | 1.5 5% 1/8W F |
| R554    | 1-247-886-00 | CARBON      | 200K 5% 1/6W | R770    | 1-247-021-00 | CARBON      | 1.5 5% 1/8W F |
| R555    | 1-247-849-00 | CARBON      | 5.6K 5% 1/6W | R771    | 1-247-874-00 | CARBON      | 62K 5% 1/6W   |
| R558    | 1-247-867-00 | CARBON      | 33K 5% 1/6W  | R772    | 1-247-870-00 | CARBON      | 43K 5% 1/6W   |
| R559    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R773    | 1-247-824-00 | CARBON      | 510 5% 1/6W   |
| R560    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R774    | 1-247-817-00 | CARBON      | 270 5% 1/6W   |
| R561    | 1-247-876-00 | CARBON      | 75K 5% 1/6W  | R775    | 1-247-824-00 | CARBON      | 510 5% 1/6W   |
| R562    | 1-247-875-00 | CARBON      | 68K 5% 1/6W  | R776    | 1-247-819-00 | CARBON      | 330 5% 1/6W   |
| R563    | 1-247-875-00 | CARBON      | 68K 5% 1/6W  | R777    | 1-247-825-00 | CARBON      | 560 5% 1/6W   |
| R564    | 1-247-889-00 | CARBON      | 270K 5% 1/6W | R778    | 1-247-875-00 | CARBON      | 68K 5% 1/6W   |
| R565    | 1-249-429-11 | CARBON      | 10K 5% 1/6W  | R779    | 1-249-429-11 | CARBON      | 10K 5% 1/6W   |
| R566    | 1-215-493-00 | METAL       | 1M 1% 1/6W   | R780    | 1-247-833-00 | CARBON      | 1.2K 5% 1/6W  |
| R567    | 1-247-877-00 | CARBON      | 82K 5% 1/6W  | R781    | 1-247-816-00 | CARBON      | 240 5% 1/6W   |
| R568    | 1-247-807-00 | CARBON      | 100 5% 1/6W  | R782    | 1-247-822-00 | CARBON      | 430 5% 1/6W   |
| R569    | 1-247-875-00 | CARBON      | 68K 5% 1/6W  | R783    | 1-247-817-00 | CARBON      | 270 5% 1/6W   |
| R570    | 1-247-870-00 | CARBON      | 43K 5% 1/6W  | R784    | 1-247-851-00 | CARBON      | 6.8K 5% 1/6W  |
| R571    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R785    | 1-247-021-00 | CARBON      | 1.5 5% 1/8W F |
| R572    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R786    | 1-247-021-00 | CARBON      | 1.5 5% 1/8W F |
| R573    | 1-247-881-00 | CARBON      | 120K 5% 1/6W | R787    | 1-247-881-00 | CARBON      | 120K 5% 1/6W  |
| R574    | 1-247-873-00 | CARBON      | 56K 5% 1/6W  | R788    | 1-247-879-00 | CARBON      | 100K 5% 1/6W  |
| R575    | 1-247-849-00 | CARBON      | 5.6K 5% 1/6W | R789    | 1-247-833-00 | CARBON      | 1.2K 5% 1/6W  |
| R576    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W | R790    | 1-247-001-11 | CARBON      | 15 5% 1/4W F  |
| R577    | 1-247-815-00 | CARBON      | 220 5% 1/6W  | R801    | 1-247-843-00 | CARBON      | 3.3K 5% 1/6W  |
| R578    | 1-247-889-00 | CARBON      | 270K 5% 1/6W | R802    | 1-247-861-00 | CARBON      | 18K 5% 1/6W   |
| R579    | 1-247-879-00 | CARBON      | 100K 5% 1/6W | R803    | 1-247-875-00 | CARBON      | 68K 5% 1/6W   |
| R580    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R804    | 1-247-867-00 | CARBON      | 33K 5% 1/6W   |
| R581    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R805    | 1-247-837-00 | CARBON      | 1.8K 5% 1/6W  |
| R582    | 1-247-849-00 | CARBON      | 5.6K 5% 1/6W | R806    | 1-249-421-11 | CARBON      | 2.2K 5% 1/6W  |
| R583    | 1-247-888-00 | CARBON      | 240K 5% 1/6W | R807    | 1-247-896-00 | CARBON      | 510K 5% 1/6W  |
| R585    | 1-247-795-00 | CARBON      | 33 5% 1/6W   | R808    | 1-249-434-11 | CARBON      | 27K 5% 1/6W   |
| R586    | 1-247-859-00 | CARBON      | 15K 5% 1/6W  | R809    | 1-249-419-11 | CARBON      | 1.5K 5% 1/6W  |
| R587    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R813    | 1-247-811-00 | CARBON      | 150 5% 1/6W   |
| R589    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R814    | 1-247-849-00 | CARBON      | 5.6K 5% 1/6W  |
| R590    | 1-247-903-00 | CARBON      | 1M 5% 1/6W   | R817    | 1-247-877-00 | CARBON      | 82K 5% 1/6W   |
| R592    | 1-212-364-00 | METAL OXIDE | 2.2 5% 1W F  | R818    | 1-247-868-00 | CARBON      | 36K 5% 1/6W   |
| R596    | 1-247-815-00 | CARBON      | 220 5% 1/6W  | R819    | 1-247-857-00 | CARBON      | 12K 5% 1/6W   |
| R597    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R820    | 1-247-877-00 | CARBON      | 82K 5% 1/6W   |
| R751    | 1-247-874-00 | CARBON      | 62K 5% 1/6W  | R821    | 1-247-879-00 | CARBON      | 100K 5% 1/6W  |
| R753    | 1-247-875-00 | CARBON      | 68K 5% 1/6W  | R822    | 1-247-879-00 | CARBON      | 100K 5% 1/6W  |
| R754    | 1-247-861-00 | CARBON      | 18K 5% 1/6W  | R823    | 1-247-849-00 | CARBON      | 5.6K 5% 1/6W  |
| R755    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R824    | 1-247-837-00 | CARBON      | 1.8K 5% 1/6W  |
| R756    | 1-247-825-00 | CARBON      | 560 5% 1/6W  | R825    | 1-249-429-11 | CARBON      | 10K 5% 1/6W   |
| R757    | 1-247-831-00 | CARBON      | 1K 5% 1/6W   | R826    | 1-215-473-00 | METAL       | 150K 1% 1/6W  |
| R758    | 1-247-819-00 | CARBON      | 330 5% 1/6W  | R827    | 1-215-447-00 | METAL       | 12K 1% 1/6W   |
| R760    | 1-247-824-00 | CARBON      | 510 5% 1/6W  | R828    | 1-215-441-00 | METAL       | 6.8K 1% 1/6W  |





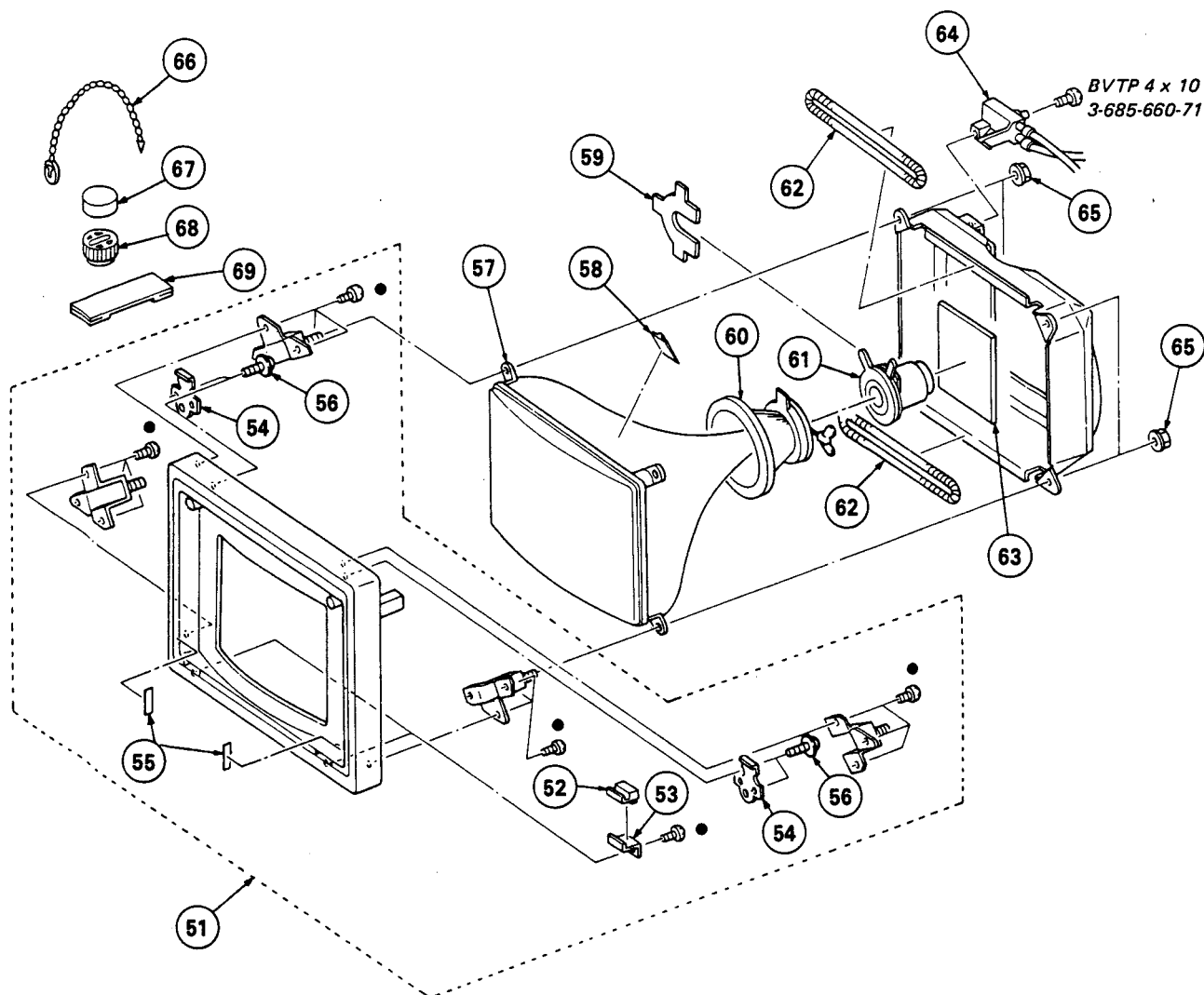
| Ref.No. | Part No.     | Description |      |     | Remark | Ref.No.           | Part No.             | Description           |        |     | Remark |
|---------|--------------|-------------|------|-----|--------|-------------------|----------------------|-----------------------|--------|-----|--------|
| * R829  | 1-249-429-11 | CARBON      | 10K  | 5%  | 1/6W   | R880              | 1-249-421-11         | CARBON                | 2.2K   | 5%  | 1/6W   |
| * R829  | 1-247-862-00 | CARBON      | 20K  | 5%  | 1/6W   | R881              | 1-249-429-11         | CARBON                | 10K    | 5%  | 1/6W   |
| * R829  | 1-247-863-00 | CARBON      | 22K  | 5%  | 1/6W   | R886              | 1-247-845-00         | CARBON                | 3.9K   | 5%  | 1/8W   |
| * R829  | 1-247-864-00 | CARBON      | 24K  | 5%  | 1/6W   | R887              | 1-247-807-00         | CARBON                | 100    | 5%  | 1/6W   |
| * R829  | 1-249-434-11 | CARBON      | 27K  | 5%  | 1/6W   | R890              | 1-212-360-00         | METAL OXIDE           | 1      | 5%  | 1W F   |
| * R829  | 1-247-866-00 | CARBON      | 30K  | 5%  | 1/6W   | R895              | 1-249-421-11         | CARBON                | 2.2K   | 5%  | 1/6W   |
| * R829  | 1-247-867-00 | CARBON      | 33K  | 5%  | 1/6W   | R896              | 1-247-831-00         | CARBON                | 1K     | 5%  | 1/6W   |
| * R829  | 1-247-869-00 | CARBON      | 39K  | 5%  | 1/6W   | R897              | 1-247-846-00         | CARBON                | 4.3K   | 5%  | 1/6W   |
| * R829  | 1-249-437-11 | CARBON      | 47K  | 5%  | 1/6W   | R898              | 1-247-831-00         | CARBON                | 1K     | 5%  | 1/6W   |
| * R829  | 1-247-873-00 | CARBON      | 56K  | 5%  | 1/6W   | R899              | 1-247-823-00         | CARBON                | 470    | 5%  | 1/6W   |
| * R829  | 1-247-876-00 | CARBON      | 75K  | 5%  | 1/6W   | VARIABLE RESISTOR |                      |                       |        |     |        |
| R830    | 1-247-867-00 | CARBON      | 33K  | 5%  | 1/6W   | RV501             | 1-228-577-00         | RES, ADJ, CARBON      | 220    |     |        |
| R831    | 1-247-864-00 | CARBON      | 24K  | 5%  | 1/6W   | RV502             | 1-228-724-00         | RES, ADJ, CARBON      | 10K    |     |        |
| R832    | 1-247-841-00 | CARBON      | 2.7K | 5%  | 1/6W   | RV504             | 1-226-852-00         | RES, ADJ, CARBON      | 22K    |     |        |
| R833    | 1-215-449-00 | METAL       | 15K  | 1%  | 1/6W   | RV505             | 1-224-249-XX         | RES, ADJ, METAL GLAZE | 1K     |     |        |
| R834    | 1-215-464-00 | METAL       | 62K  | 1%  | 1/6W   | RV506             | 1-226-855-00         | RES, ADJ, CARBON      | 220K   |     |        |
| R836    | 1-247-819-00 | CARBON      | 330  | 5%  | 1/6W   | RV507             | 1-226-850-00         | RES, ADJ, CARBON      | 4.7K   |     |        |
| R837    | 1-247-831-00 | CARBON      | 1K   | 5%  | 1/6W   | RV751             | 1-226-850-00         | RES, ADJ, CARBON      | 4.7K   |     |        |
| R838    | 1-206-745-00 | METAL OXIDE | 6.8K | 5%  | 3W F   | RV752             | 1-228-724-00         | RES, ADJ, CARBON      | 10K    |     |        |
| R839    | 1-247-662-00 | CARBON      | 560  | 5%  | 1/4W F | RV753             | 1-226-850-00         | RES, ADJ, CARBON      | 4.7K   |     |        |
| R841    | 1-212-361-00 | METAL OXIDE | 1.2  | 5%  | 1W F   | RV802             | 1-228-160-11         | RES, ADJ, METAL GLAZE | 5K     |     |        |
| R842    | 1-206-745-00 | METAL OXIDE | 6.8K | 5%  | 3W F   | RV803             | 1-226-849-00         | RES, ADJ, CARBON      | 3.3K   |     |        |
| R844    | 1-213-126-00 | METAL OXIDE | 39   | 5%  | 1W F   | RV804             | 1-226-847-00         | RES, ADJ, CARBON      | 1K     |     |        |
| R845    | 1-215-465-00 | METAL       | 68K  | 1%  | 1/6W   | RV805             | 1-226-845-00         | RES, ADJ, CARBON      | 330    |     |        |
| R846    | 1-247-819-00 | CARBON      | 330  | 5%  | 1/6W   | RV808             | 1-223-102-00         | RES, ADJ, WIREWOUND   | 120    |     |        |
| R847    | 1-249-429-11 | CARBON      | 10K  | 5%  | 1/6W   | TRANSFORMER       |                      |                       |        |     |        |
| R848    | 1-247-846-00 | CARBON      | 4.3K | 5%  | 1/6W   | T801              | △ 1-437-090-11       | HDT                   |        |     |        |
| R849    | 1-247-861-00 | CARBON      | 18K  | 5%  | 1/6W   | T803              | △ 1-421-693-11       | TRANSFORMER, FERRITE  |        |     |        |
| R850    | 1-247-844-00 | CARBON      | 3.6K | 5%  | 1/6W   | THERMISTOR        |                      |                       |        |     |        |
| R851    | 1-247-861-00 | CARBON      | 18K  | 5%  | 1/6W   | TH501             | 1-806-110-00         | THERMISTOR            |        |     |        |
| R852    | 1-247-863-00 | CARBON      | 22K  | 5%  | 1/6W   | TH751             | 1-800-071-XX         | THERMISTER, S-300     |        |     |        |
| R853    | 1-247-845-00 | CARBON      | 3.9K | 5%  | 1/6W   | *****             |                      |                       |        |     |        |
| R855    | 1-247-819-00 | CARBON      | 330  | 5%  | 1/6W   | *1-613-615-11     | H BOARD              |                       |        |     |        |
| R856    | 1-247-853-00 | CARBON      | 8.2K | 5%  | 1/6W   | *****             |                      |                       |        |     |        |
| R857    | 1-247-879-00 | CARBON      | 100K | 5%  | 1/6W   | *4-364-731-00     | HOLDER, LED          |                       |        |     |        |
| R858    | 1-247-890-00 | CARBON      | 300K | 5%  | 1/6W   | *4-364-732-00     | HOLDER (4 GANG), LED |                       |        |     |        |
| R860    | 1-217-418-00 | FUSIBLE     | 0.47 | 10% | 1/2W F | CAPACITOR         |                      |                       |        |     |        |
| R861    | 1-217-418-00 | FUSIBLE     | 0.47 | 10% | 1/2W F | C681              | 1-101-004-00         | CERAMIC               | 0.01MF | 50V |        |
| R862    | 1-244-923-00 | CARBON      | 120K | 5%  | 1/2W   | C683              | 1-101-004-00         | CERAMIC               | 0.01MF | 50V |        |
| R863    | 1-244-923-00 | CARBON      | 120K | 5%  | 1/2W   | DIODE             |                      |                       |        |     |        |
| R864    | 1-247-718-11 | CARBON      | 2.7K | 5%  | 1/4W   | D680              | 8-719-803-20         | DIODE TLR320          |        |     |        |
| R865    | 1-247-142-00 | CARBON      | 3K   | 5%  | 1/4W   | *1-526-638-21     | SOCKET, IC 9P; D680  |                       |        |     |        |
| R866    | 1-247-614-00 | CARBON      | 3.3K | 5%  | 1/8W   | D681              | 8-719-812-31         | DIODE TLR123          |        |     |        |
| R867    | 1-213-143-00 | METAL OXIDE | 1K   | 5%  | 1W F   | D682              | 8-719-812-32         | DIODE TLY123          |        |     |        |
| R868    | 1-213-147-00 | METAL OXIDE | 2.2K | 5%  | 1W F   | D683              | 8-719-812-33         | DIODE TLG123A         |        |     |        |
| R869    | 1-213-127-00 | METAL OXIDE | 47   | 5%  | 1W F   | D684              | 8-719-812-31         | DIODE TLR123          |        |     |        |
| R870    | 1-247-867-00 | CARBON      | 33K  | 5%  | 1/6W   |                   |                      |                       |        |     |        |
| R871    | 1-249-421-11 | CARBON      | 2.2K | 5%  | 1/6W   |                   |                      |                       |        |     |        |
| R872    | 1-247-877-00 | CARBON      | 82K  | 5%  | 1/6W   |                   |                      |                       |        |     |        |
| R873    | 1-249-429-11 | CARBON      | 10K  | 5%  | 1/6W   |                   |                      |                       |        |     |        |
| R876    | 1-212-364-00 | METAL OXIDE | 2.2  | 5%  | 1W F   |                   |                      |                       |        |     |        |
| R877    | 1-247-874-00 | CARBON      | 62K  | 5%  | 1/6W   |                   |                      |                       |        |     |        |
| R878    | 1-247-894-00 | CARBON      | 430K | 5%  | 1/6W   |                   |                      |                       |        |     |        |

※ : selected to yield optimum performance.

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

## 5-2. BEZEL

●: TA, BV3 x 12 7-685-648-71



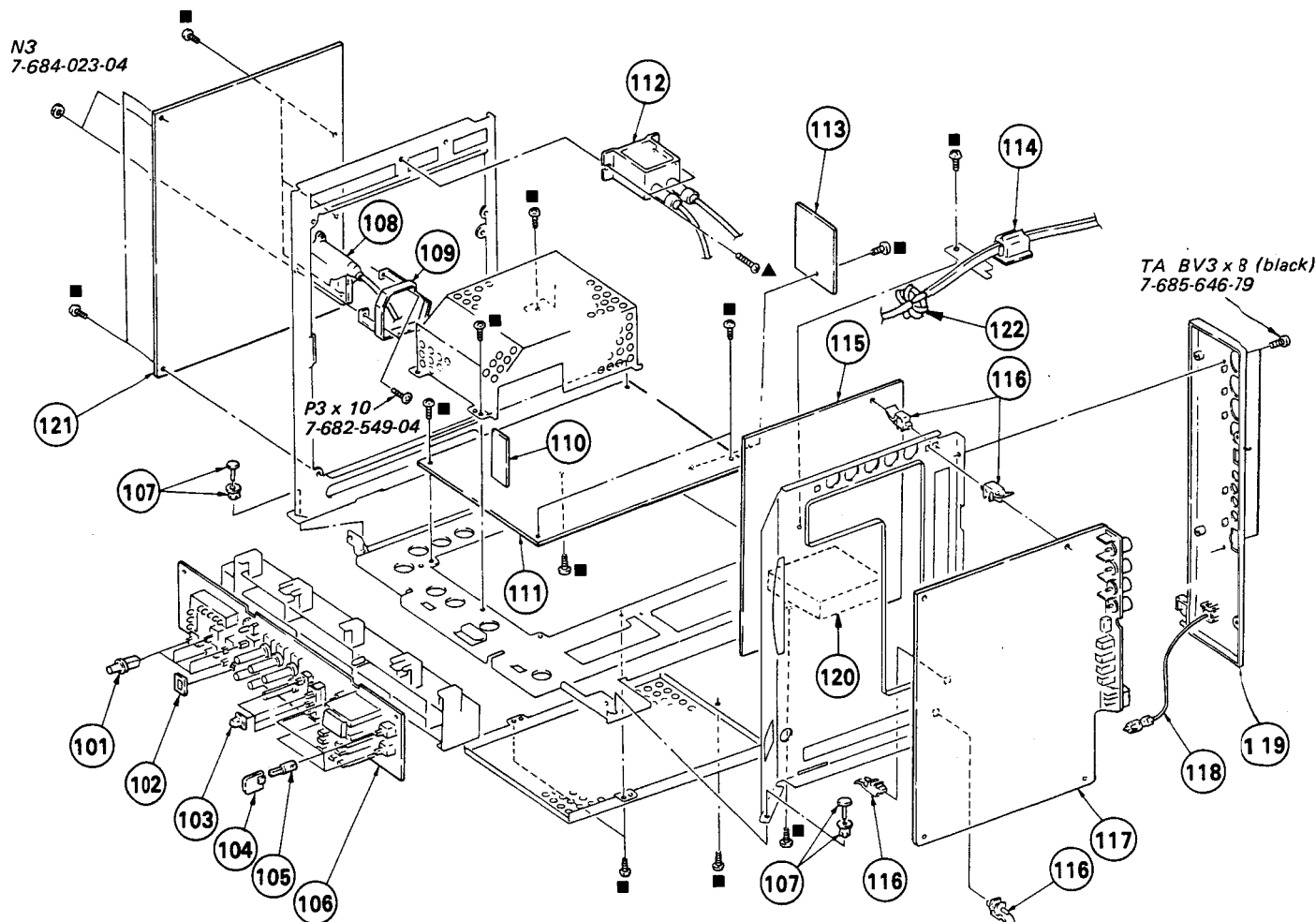
| No. | Part No.       | Description                 |
|-----|----------------|-----------------------------|
| 51  | X-4364-702-0   | BEZEL ASSY                  |
| 52  | 4-336-808-00   | PROTECTOR, FILTER           |
| 53  | 4-364-701-00   | HOLDER, FILTER              |
| 54  | *4-341-905-00  | NUT, PLATE (A)              |
| 55  | 9-911-837-XX   | CUSHION (B), FILTER         |
| 56  | 4-302-428-00   | HEAD, WASHER, TAPPING SCREW |
| 57  | △.8-738-312-05 | CRT (330YB22)               |
| 58  | 3-703-003-00   | SPACER, DY                  |
| 59  | 1-452-146-21   | MAGNET, BMC                 |
| 60  | △.1-451-239-12 | DEFLECTION YOKE (SY-97A)    |

| Remark | No. | Part No.       | Description                    | Remark |
|--------|-----|----------------|--------------------------------|--------|
| 52-56  | 61  | △.1-452-214-12 | CRT NECK ASSY (H TYPE)         |        |
|        | 62  | △.1-426-086-12 | COIL, DEGAUSSING               |        |
|        | 63  | *A-1330-603-A  | C1 BOARD, COMPLETE             |        |
|        | 64  | △.1-228-482-14 | RESISTOR ASSY, HIGH-VOLTAGE    |        |
|        | 65  | 4-306-034-00   | FLANGE NUT, (B) 5MM            |        |
|        | 66  | 4-308-870-00   | CLIP, LEAD WIRE                |        |
|        | 67  | 1-452-032-00   | MAGNET, DISK; 10MM ø           |        |
|        | 68  | 1-452-094-00   | MAGNET, ROTATABLE DISK; 15MM ø |        |
|        | 69  | X-4308-815-0   | PERMALLOY ASSY, CONVERGENCE    |        |

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

## 5-3. CHASSIS

- : TA, BV3 x 8      7-685-646-71  
▲: TA, BV4 x 12      7-685-661-14



| No. | Part No.       | Description               |
|-----|----------------|---------------------------|
| 101 | 4-333-704-00   | BUTTON, CONTROL           |
| 102 | 4-364-730-00   | KNOB, SLIDE               |
| 103 | 4-369-627-01   | PUSH BUTTON               |
| 104 | 4-364-703-00   | BUTTON                    |
| 105 | *4-364-708-00  | SHAFT, BUTTON             |
| 106 | *1-613-615-11  | H BOARD                   |
| 107 | 3-646-090-00   | RIVET, NYLON              |
| 108 | ▲ 1-439-308-12 | TRANSFORMER ASSY, FLYBACK |
| 109 | *4-364-749-00  | PLATE, SHIELD, F.B.T      |
| 110 | *1-613-847-11  | F2 BOARD                  |

| Remark | No. | Part No.       | Description                      | Remark |
|--------|-----|----------------|----------------------------------|--------|
|        | 111 | *A-1245-297-A  | F BOARD, COMPLETE                |        |
|        | 112 | ▲ 1-162-142-21 | CAP BLOCK, HIGH VOLTAGE          |        |
|        | 113 | *1-613-038-11  | C2 BOARD                         |        |
|        | 114 | ▲ 4-364-745-01 | BUSHING, AC CORD                 |        |
|        | 115 | *A-1296-057-A  | A BOARD, COMPLETE                |        |
|        | 116 | *3-703-141-00  | HOLDER, PCB                      |        |
|        | 117 | *A-1135-333-A  | B BOARD, COMPLETE                |        |
|        | 118 | ▲ 1-557-098-31 | SOCKET, PAL ANTENNA (WITH CABLE) |        |
|        | 119 | 4-364-779-11   | PANEL, CONNECTOR                 |        |
|        | 120 | ▲ 1-463-350-31 | TUNER, ET (BT-881)               |        |
|        | 121 | *A-1345-494-A  | D BOARD, COMPLETE                |        |
|        | 122 | 1-543-179-00   | CORE, RING                       |        |

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

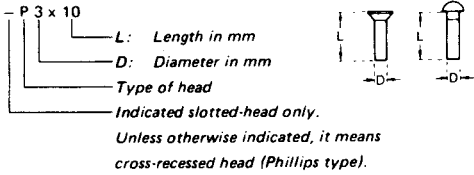
H

| Ref.No.           | Part No.                   | Description          | Remark       | Ref.No.                           | Part No.                         | Description                     | Remark |
|-------------------|----------------------------|----------------------|--------------|-----------------------------------|----------------------------------|---------------------------------|--------|
| D685              | 8-719-812-31               | DIODE TLR123         |              | MISCELLANEOUS                     |                                  |                                 |        |
| D686              | 8-719-812-31               | DIODE TLR123         |              | *****                             |                                  |                                 |        |
| D687              | 8-719-812-31               | DIODE TLR123         |              | △.1-162-142-21                    | CAP BLOCK, HIGH VOLTAGE          |                                 |        |
| D688              | 8-719-812-31               | DIODE TLR123         |              | △.1-228-482-14                    | RESISTOR ASSY, HIGH-VOLTAGE      |                                 |        |
| D690              | 8-719-812-31               | DIODE TLR123         |              | △.1-451-239-12                    | DEFLECTION YOKE (SY-97A)         |                                 |        |
|                   | 4-359-103-00               | HOLDER, LED; D690    |              | 1-452-032-00                      | MAGNET, DISK; 10MM Ø             |                                 |        |
| D691              | 8-719-114-34               | DIODE SY432D         |              | 1-452-094-00                      | MAGNET, ROTATABLE DISK; 15MM Ø   |                                 |        |
| *4-364-712-00     | HOLDER (3 GANG), LED; D691 |                      |              | 1-452-146-21                      | MAGNET, BMC                      |                                 |        |
| D692              | 8-719-114-34               | DIODE SY432D         |              | △.1-452-214-12                    | CRT NECK ASSY (H TYPE)           |                                 |        |
| *4-364-712-00     | HOLDER (3 GANG), LED; D692 |                      |              | 1-543-179-00                      | CORE, RING                       |                                 |        |
| D693              | 8-719-114-34               | DIODE SY432D         |              | *1-556-528-11                     | CONNECTOR ASSY (MINI, DY) 6P     |                                 |        |
| *4-364-712-00     | HOLDER (3 GANG), LED; D693 |                      |              | △.1-557-098-31                    | SOCKET, PAL ANTENNA (WITH CABLE) |                                 |        |
| D694              | 8-719-114-34               | DIODE SY432D         |              | △.1-558-158-11                    | CORD, POWER                      |                                 |        |
| D695              | 8-719-114-34               | DIODE SY432D         |              | C901                              | 1-123-337-00                     | CAP, ELECT 1000MF               |        |
| D696              | 8-719-114-34               | DIODE SY432D         |              | L901                              | △.1-426-086-12                   | COIL, DEGAUSSING                |        |
| D697              | 8-719-114-34               | DIODE SY432D         |              | S901                              | △.1-554-967-11                   | SWITCH, PUSH (AC POWER) (1 KEY) |        |
| IC                |                            |                      |              | SP901                             | 1-503-109-00                     | SPEAKER                         |        |
| IC681             | 8-759-619-03               | IC M51903L           |              | T802                              | △.1-439-308-12                   | TRANSFORMER ASSY, FLYBACK       |        |
| RESISTOR          |                            |                      |              | V901                              | △.8-738-312-05                   | CRT (330YB22)                   |        |
| R684              | 1-249-421-11               | CARBON               | 2.2K 5% 1/6W | *****                             |                                  |                                 |        |
| R685              | 1-247-831-00               | CARBON               | 1K 5% 1/6W   | ACCESSORIES AND PACKING MATERIALS |                                  |                                 |        |
| R687              | 1-247-807-00               | CARBON               | 100 5% 1/6W  | *****                             |                                  |                                 |        |
| R688              | 1-247-887-00               | CARBON               | 220K 5% 1/6W | Part No.                          | Description                      | Remark                          |        |
| R690              | 1-249-429-11               | CARBON               | 10K 5% 1/6W  | 1-508-955-00                      | PLUG, ANTENNA                    |                                 |        |
| R691              | 1-249-429-11               | CARBON               | 10K 5% 1/6W  | 3-701-630-00                      | BAG, POLYETHYLENE                |                                 |        |
| R692              | 1-247-826-00               | CARBON               | 620 5% 1/6W  | 4-316-037-00                      | BAG, POLYETHYLENE                |                                 |        |
| R694              | 1-247-831-00               | CARBON               | 1K 5% 1/6W   | 4-364-734-00                      | CUSHION (UPPER) (ASSY)           |                                 |        |
| VARIABLE RESISTOR |                            |                      |              | 4-364-735-00                      | CUSHION (LOWER) (ASSY)           |                                 |        |
| RV681             | 1-228-938-00               | RES, VAR, CARBON 20K |              | 4-364-767-01                      | INDIVIDUAL CARTON                |                                 |        |
| RV682             | 1-228-938-00               | RES, VAR, CARBON 20K |              | 4-364-785-01                      | LABEL, INSTRUCTION               |                                 |        |
| RV683             | 1-228-938-00               | RES, VAR, CARBON 20K |              | 4-482-051-11                      | MANUAL, INSTRUCTION              |                                 |        |
| RV684             | 1-228-936-00               | RES, VAR, CARBON 10K |              |                                   |                                  |                                 |        |
| RV685             | 1-228-936-00               | RES, VAR, CARBON 10K |              |                                   |                                  |                                 |        |
| RV686             | 1-228-937-00               | RES, VAR, CARBON 20K |              |                                   |                                  |                                 |        |
| SWITCH            |                            |                      |              |                                   |                                  |                                 |        |
| S670              | 1-552-774-00               | SWITCH, PUSH         |              |                                   |                                  |                                 |        |
| S671              | 1-552-774-00               | SWITCH, PUSH         |              |                                   |                                  |                                 |        |
| S672              | 1-552-774-00               | SWITCH, PUSH         |              |                                   |                                  |                                 |        |
| S673              | 1-552-774-00               | SWITCH, PUSH         |              |                                   |                                  |                                 |        |
| S674              | 1-552-774-00               | SWITCH, PUSH         |              |                                   |                                  |                                 |        |
| S675              | 1-552-774-00               | SWITCH, PUSH         |              |                                   |                                  |                                 |        |
| S677              | 1-553-537-00               | SWITCH, SLIDE        |              |                                   |                                  |                                 |        |
| S678              | 1-554-118-00               | SWITCH, PUSH (1 KEY) |              |                                   |                                  |                                 |        |
| S680              | 1-552-774-00               | SWITCH, PUSH         |              |                                   |                                  |                                 |        |
| S681              | 1-552-774-00               | SWITCH, PUSH         |              |                                   |                                  |                                 |        |
| S682              | 1-552-774-00               | SWITCH, PUSH         |              |                                   |                                  |                                 |        |
| S683              | 1-552-774-00               | SWITCH, PUSH         |              |                                   |                                  |                                 |        |
| S685              | 1-554-404-00               | SWITCH, PUSH (3 KEY) |              |                                   |                                  |                                 |        |

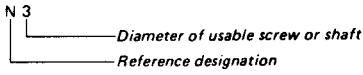
The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

HARDWARE NOMENCLATURE

Screw:



Nut, Washer, Retaining ring:



| Reference Designation | Shape | Description                                 | Remarks                                                            |
|-----------------------|-------|---------------------------------------------|--------------------------------------------------------------------|
| SCREWS                |       |                                             |                                                                    |
| P                     |       | pan-head screw                              | binding-head (B) screw for replacement                             |
| PWH                   |       | pan-head screw with washer face             | binding-head (B) screw and flat washer for replacement             |
| PS<br>PSP             |       | pan-head screw with spring washer           | binding-head (B) screw and spring washer for replacement           |
| PSW<br>PSPW           |       | pan-head screw with spring and flat washers | binding-head (B) screw and spring and flat washers for replacement |
| R                     |       | round-head screw                            | binding-head (B) screw for replacement                             |
| K                     |       | flat-countersunk-head screw                 |                                                                    |
| RK                    |       | oval-countersunk-head screw                 |                                                                    |
| B                     |       | binding-head screw                          |                                                                    |
| T                     |       | truss-head screw                            | binding-head (B) screw for replacement                             |
| F                     |       | flat-fillister-head screw                   |                                                                    |
| RF                    |       | fillister-head screw                        |                                                                    |
| BV                    |       | brazier-head screw                          |                                                                    |

| Reference Designation | Shape | Description                                    | Remarks                                                                 |
|-----------------------|-------|------------------------------------------------|-------------------------------------------------------------------------|
| SELF-TAPPING SCREWS   |       |                                                |                                                                         |
| TA                    |       | self-tapping screw                             | ex: TA, P 3 x 10                                                        |
| PTP                   |       | pan-head self-tapping screw                    | binding-head self-tapping (TA, B) screw for replacement                 |
| PTPWH                 |       | pan-head self-tapping screw with washer face   | binding-head self-tapping (TA, B) screw and flat washer for replacement |
| PTTWH                 |       | pan-head thread-rolling screw with washer face | binding-head (B) screw and flat washer for replacement                  |
| SET SCREWS            |       |                                                |                                                                         |
| SC                    |       | set screw                                      |                                                                         |
| SC                    |       | hexagon-socket set screw                       | ex: SC 2.6 x 4, hexagon socket                                          |
| NUT                   |       |                                                |                                                                         |
| N                     |       | nut                                            |                                                                         |
| WASHERS               |       |                                                |                                                                         |
| W                     |       | flat washer                                    |                                                                         |
| SW                    |       | spring washer                                  |                                                                         |
| LW                    |       | internal-tooth lock washer                     | ex: LW3, internal                                                       |
| LW                    |       | external-tooth lock washer                     | ex: LW3, external                                                       |
| RETAINING RINGS       |       |                                                |                                                                         |
| E                     |       | retaining ring                                 |                                                                         |
| G                     |       | grip-type retaining ring                       |                                                                         |